


1. <b>Position/Major</b>	Associate Professor of AI, IoT, and Cybersecurity: Faculty of Computer and IT, Sana'a University, Sana'a, Yemen Faculty of Computing and IT, University of Science and Technology, Sana'a, Yemen. Dean of E-learning Deanship: University of Science and Technology, Sana'a, Yemen.	
2. <b>Name of Staff</b>	<b>Associate Prof. Eng. Dr.  Ammar Thabit Abdullah Zahary</b>	
3. <b>Contacts</b>	Email: <a href="mailto:aalzahary@gmail.com">aalzahary@gmail.com</a> ; <a href="mailto:zahary@su.edu.ye">zahary@su.edu.ye</a> ; <a href="mailto:a.zahary@ust.edu.ye">a.zahary@ust.edu.ye</a>	Mobile: +967 771 159 311
4. <b>Date of Birth</b>	13 January 1972	Nationality: Yemeni
5. <b>Web Pages</b>	<a href="https://su.edu.ye/fcit/en/our_team/dr-ammar-al-zhari/">https://su.edu.ye/fcit/en/our_team/dr-ammar-al-zhari/</a> <a href="https://ust.edu.ye/cit/cv-ammar/">https://ust.edu.ye/cit/cv-ammar/</a> <a href="https://www.linkedin.com/in/ammam-zahary-196a102a">www.linkedin.com/in/ammam-zahary-196a102a</a> <a href="https://scholar.google.com/citations?user=AWCNGm8AAAAJ&amp;hl=en">https://scholar.google.com/citations?user=AWCNGm8AAAAJ&amp;hl=en</a> <a href="https://www.scopus.com/authid/detail.uri?authorId=24726534200">https://www.scopus.com/authid/detail.uri?authorId=24726534200</a> <a href="https://orcid.org/my-orcid?orcid=0000-0001-7873-3667">https://orcid.org/my-orcid?orcid=0000-0001-7873-3667</a>	
6. <b>Personal Profile</b>	Associate Professor with over 17 years of academic and professional experience in Computing fields, specializing in Artificial Intelligence, Machine Learning, Internet of Things (IoT), Cybersecurity, and Blockchain applications. Proven track record in teaching, academic leadership, curriculum design, international collaboration, research supervision, and scholarly publications in leading journals. Dedicated to excellence in higher education, innovation, and capacity building in emerging technologies. Strong contributor to institutional accreditation, digital transformation, and quality assurance initiatives. In addition, I am an approved external auditor in the national accreditation for computing programs in Yemen. I have an excellent research track record, with an h-index of 15 (Google Scholar) and 11 (Scopus), and approximately 80 peer-reviewed publications, including about 42 research articles published in high-quality journals (Scopus and Web of Science). In addition, I was and still an editorial board member and technical committee member (reviewer) in many highly ranked journals (Web of Science and Scopus) at high-level publishers such as Springer (Nature), Elsevier, IEEE Access, CMC-Computers, Materials & Continua, Frontiers of Internet of Things, and Emerald. My research interests are focused on Artificial Intelligence, Machine Learning, Intelligent Internet of Things, Cybersecurity, Blockchain, Mobile Ad Hoc Networks (MANETs), Vehicular Ad Hoc Networks (VANETs), Cloud Computing, Fog Computing, and Mobile Edge Computing. Furthermore, I was and	

	<p>still am the main supervisor on numerous Master's and PhD theses. Finally, I am one of the founders of the IEEE Yemen Subsection, established in 2018, and served as its first chair from November 2018 to December 2022. Currently, I am the elected vice chair of the Subsection from 2023 to 2026. Thus, I was and still am contributing to the organization and program committees of more than 15 IEEE conferences in Yemen since 2019 until current.</p>
7. Education	<p><b>Degree/qualification obtained: Ph.D.</b>  Field: Data Communication and Networking  College/University: De Montfort University, Leicester, UK  Dates attended: 2004 - 2008  The title of my Ph.D. thesis: "Improving Routing Performance of Multipath Ad Hoc On-Demand Distance Vector in Mobile Ad Hoc Networks"</p> <p><b>Degree/qualification obtained: Master of Science (MSc)</b>  Field: Computer Engineering  College/University: University of Science and Technology, Yemen  Dates attended: 1999 - 2001</p> <p><b>Degree/qualification obtained: Bachelor of Engineering (B. Eng)</b>  Field: Electrical Communications and Electronic Engineering  Major: Computer and Control Engineering  College/University: Cairo University, Egypt  Dates attended: 1992 – 1997</p>
8. Employment Record/ Experience	<p>17 years of work experience, worked with different academic bodies and business sectors in Yemen:</p> <p><b>Employment Record (Positions):</b></p> <ul style="list-style-type: none"> <li>▪ Associate Professor of AI, IoT, and Cyber Security, Faculty of Computer and IT, Sana'a University, since Dec 2014 – present.</li> <li>▪ Dean of e-Learning, University of Science and Technology Sana'a (USTY), Yemen, August 2021– present.</li> <li>▪ Vice President, Azal University for Human Development, Sana'a, Yemen, Jan 2019 – Apr 2021.</li> <li>▪ University President's Advisor for Quality Assurance and Accreditation, Azal University for Human Development, Sana'a, Yemen, Nov 2015 – Dec 2018.</li> <li>▪ Dean of Faculty of Engineering and IT, Azal University for Human Development, Sana'a, Yemen, Nov 2015 – Dec 2018.</li> <li>▪ Director of Quality Assurance and Accreditation, University of Science and Technology, Yemen, 2013 –2015.</li> <li>▪ Assistant Professor of Data Communication and Networking, Faculty of Engineering and IT, Taiz University, Yemen, Jan 2011 – Feb 2013.</li> <li>▪ Leader of Quality Improvement Team (QIT) for Computer Networks and Distributed Systems Program Sponsored by World Bank, Taiz University, which was sponsored by World Bank and the Ministry of Higher Education, Yemen, 2012 - 2013.</li> <li>▪ Head of Computer Science and IT Dep, University of Science and Technology, Yemen, 2008 – 2010.</li> </ul>

**Experience in Quality Assurance and Accreditation:**

- Assigned by the Ministry of Education and Scientific Research in Yemen as an External Auditor for the Assessment Process of Master Programs in Information Technology at Saba University and International Emirates University, Sana'a, Yemen (January 2024).
- Assigned by the Council for Accreditation & Quality Assurance in Yemen as an External Auditor for National Accreditation Process for Information Technology Program at Al-Hekma University, Sana'a, Yemen (March 2024).
- Member, Committee for National Accreditation Reference Standards (NARS) for Computing Programs, CAQA, Sana'a, Yemen (2018).
- Participated in Computing programs development and accreditation at Sana'a University (2015 – Current).
- Led national accreditation processes for computing programs at the University of Science and Technology and Taiz University based on CAQA and ABET standards.
- A member of the first group selected by the Yemeni Council of Accreditation and Quality Assurance (CAQA) as the experts in developing academic programs in Yemen, Council of Accreditation and Quality Assurance (CAQA), Ministry of Higher Education and Scientific Research, Yemen, 2014.
- Trainer and consultant for program self-assessment, course specification, and academic quality enhancement at multiple universities.
- Project Leader, Quality Improvement Team (QIT), Taiz University, sponsored by the World Bank (2012–2013).
- Delivered numerous training workshops on academic program evaluation and quality assurance in collaboration with HEQIP and CAQA.
- Consultant for strategy development and accreditation preparation at Azal and Al-Hekma Universities.

**- In more detail:**

- Consultant for Developing University Strategy, Al-Hekma University, Yemen, 2019-2024.
- Consultant for Developing University Strategy 2018-2022, Azal University for Human Development, Sana'a, Yemen.
- Member of the committee developing the National Accreditation Reference Standards (NARS) for Computing Programs in Yemen, Council of Accreditation and Quality Assurance (CAQA), Ministry of Higher Education and Scientific Research, Yemen, 2018.
- Trainer and reviewer for preparing Program Specification Document (PSD), Course Specification, and Self-assessment Study for most programs in the University of Science and Technology based on standards of the Council of Accreditation and Quality Assurance (CAQA), Ministry of Higher Education and Scientific Research in Yemen, 2014.
- Reviewer and consultant for QIT of developing Computer Science Program, Hajja University, sponsored by the World Bank, HEQIP Project, 2012 –2014.
- Leading the national accreditation process for the University of Science and Technology based on standards of the Council of Accreditation and Quality Assurance (CAQA), Ministry of Higher Education and Scientific Research in Yemen, 2013.
- Leading the process of developing the PILOs, Competencies, Study Plan, Course Specification, and PSD of Computer Networks and Distributed Systems, Taiz University, under supervision and sponsorship by the World Bank, HEQIP Project, Yemen, 2012.

- As the QIT leader of the Computer Networks and Distributed Systems Program at Taiz University, I participated in a team that executed a 2-week Study Tour to Edinburgh Napier University in Scotland, UK, within a program arranged between the Scottish university and the HEQIP Project, World Bank, in 2012.
- Practicing on course syllabus design and curriculum of the new Software Engineering program at UST, Yemen, in cooperation with iCarnegie (Sponsored by Carnegie Mellon University, USA), 2010.
- Practicing in building Program Specification Documents (PSDs) of three programs in Computer Science and IT Dept., University of Science and Technology, Yemen; Computer Networks Program, IT Program, and Software Engineering Program, 2008.
- Practicing in the building course syllabus and curriculum of three programs in Computer Science and IT Dept, University of Science and Technology, Yemen; Computer Networks Program, IT Program, and Software Engineering Program, 2008.
- Practicing in the training course of teaching methods for undergraduate students, University of Science and Technology, Yemen, 2008.

**Teaching Experience:**

Courses taught (BSc/MSc):

- Artificial Intelligence, Machine Learning
- Cybersecurity, Digital Forensics, IT Auditing and Assurance
- Internet of Things, Real-Time Systems, Embedded Systems
- Data Communication, Wireless/Mobile Networks
- Operating Systems, Computer Architecture

**Academic and Research Supervision:**

- Supervised 50+ Master's theses in Computer Science, IT, and Cybersecurity
- Supervised and co-supervised 10+ Ph.D. dissertations
- Current supervision includes 8 MSc and PhD students in AI, IoT, and Blockchain

**- In more detail:**

- I was the main supervisor on more than 50 master theses of Graduate Students in the Master Programs of Computing and IT at Sana'a University, University of Science and Technology in Yemen, and the Master Program of Computer Information Systems at the Arab Academy for Banking and Financial Sciences, Yemen Branch, 2009 – Present.
- I was the field and local supervisor of two Ph.D. students at De Montfort University, UK, and USM, Malaysia, respectively, in 2009 and 2011.
- I have supervised (and I am still supervising) more than 10 Ph.D. theses in the Ph.D. in Information Technology program at Sana'a University, Yemen.
- I am currently the main supervisor of 8 graduate theses in the program of Master's in Information Technology at Sana'a University, and the program of Master of Computing at the University of Science and Technology, Yemen.

**Research Experience:**

**Research Interests:**

- Artificial Intelligence (AI) and Machine Learning (ML)
- Internet of Things (IoT) and Embedded Systems
- Blockchain-based Security and Cybersecurity
- Intrusion Detection Systems (IDS)
- Mobile and Autonomous Networks (MANETs, VANETs, D2D, UAV)

- Edge, Fog, and Cloud Computing
- Digital Transformation in Education and Health Systems

#### **Publishing:**

- 80 publications as a total (2007 - 2025).
- 42 published papers are Web of Science/Scopus between Q1 and Q4.
- My research h-index is 15 in Google Scholar and 11 in Scopus.

<https://scholar.google.com/citations?user=AWCNGm8AAAAJ&hl=en>

<https://www.scopus.com/authid/detail.uri?authorId=24726534200>

<https://orcid.org/my-orcid?orcid=0000-0001-7873-3667>

#### **Reviewing and Research Activities:**

- Organizing many conferences, workshops, symposiums, and IEEE Day activities in Yemen under the technical sponsorship of IEEE Yemen Subsections. From Nov 2018 - present.
- Participating as a member of the IT and Telecom Sector in the development of the Research Map of the Republic of Yemen 2023, which has been developed and issued by the Higher Authority for Science, Technology, and Innovation, Yemen, 2023.
- Program Committee Member and a Keynote speaker in many IEEE conferences, 2019 – present.
- Program Committee member for the first and the second International Conference for E-Learning, 2020 and 2021.
- I am an editorial board member or technical committee member in many highly ranked journals, including IEEE Access Journal, MDPI Sensor Journals, Springer Nature Journals, Emerald Library High Tech., Elsevier Cyber Security and Applications, Frontiers in Internet of Things, and CMC-Computers, Materials & Continua at Tech Science Press.
- Steering committee member of International Arab Conference of IT (ACIT), Colleges of Computing and Information Society (CCIS), Stemming from the Association of Arab Universities, Jordan, 2009-2012.

#### **International Engagement:**

- Academic Visitor, De Montfort University and Edinburgh Napier University, UK (2009, 2012, 2014)
- DAAD-Funded Coordinator, ARTORRR Project, Offenburg University, Germany (2023, 2024)
- Workshop Participant and Presenter, IoT, Blockchain, and Education Strategy forums in Germany, Egypt, Yemen (2018–2024)

#### **Professional Memberships:**

- Senior Member, IEEE (Since 2018)
- Vice Chair, IEEE Yemen Subsection (2023–2026)
- Founding Chair, IEEE Yemen Subsection (2019–2022)
- Editorial Member, IEEE Access, MDPI Sensors, Frontiers in IoT, Springer, Elsevier
- Committee Member, CAQA – Yemen National Accreditation Standards for Computing
- Steering Committee Member of the International Arab Conference of IT (ACIT) (2009-2012)

	<p><b>Grants, Projects &amp; Consulting</b></p> <ul style="list-style-type: none"> <li>- Principal Investigator, IoT-enabled healthcare systems</li> <li>- ERP Consultant, Private sector and higher education (Yemen)</li> <li>- Project Manager, Quality and Accreditation Projects (World Bank HEQIP)</li> <li>- Consultant, Azal and Al-Hekma University Strategies (2017–2020)</li> </ul> <p><b>Training &amp; Certification:</b></p> <ul style="list-style-type: none"> <li>- Certified eLearning Lecturer, Professional Charter Certificate, The Academy of eLearning, UK (2022)</li> <li>- ABET and NARS Accreditation Training (2021)</li> <li>- Academic Program Review and Quality Improvement (2008–2022)</li> <li>- World Bank Project Training and Study Tours (Jordan, Yemen, UK 2012–2013)</li> </ul> <p><b>Business and Consulting Experience:</b></p> <ul style="list-style-type: none"> <li>▪ General Manager of Elite Tecs Company for Technical Solutions, Sana’a, Yemen, 2013 – present.</li> <li>▪ Project manager for providing IT managed services and outsourcing for the enterprise sector in Yemen, which is provided by Elite Tecs Company for Technical Solutions, Sana’a, Yemen, 2016 – present.</li> <li>▪ ERP Implementation Consultant for many corporations and companies in Yemen, 2019 – present.</li> <li>▪ 2008 –2010: Supervisor (CIO) of Computer and IT Centre for the following: <ul style="list-style-type: none"> <li>▪ Technical supervision on the project of ERP implementation for the University of Science and Technology (UST), Yemen, which was implemented by METEOR (a Malaysian Company), 2008-2010.</li> <li>▪ Requirement gathering, analysis, and specifications determination for UST software system, chairman of the committee, 2009.</li> <li>▪ Solving the problems of graduated data in the UST system, chairman of the committee, 2008.</li> <li>▪ Chairman of the computer centre evaluation committee, which was required to evaluate and develop the IT infrastructure and data centre of UST, 2008.</li> </ul> </li> <li>▪ March 2006 – June 2008: Consultant for Itexsolutions Company, a member of Shihab Agencies Group in Yemen. I have prepared many consultancies, system analysis studies, requirements analysis, and system designs for many projects with this company, such as the following: <ul style="list-style-type: none"> <li>▪ July 2008: A comprehensive study on the requirements of implementing Wi-Max Systems for data networks in Yemen.</li> <li>▪ Jan - Mar 2007: Evaluation Study for Enterprise Resource Planning (ERP) Systems for the most common ERP products worldwide.</li> <li>▪ Nov 2007: Study on the hardware requirements of the Oracle ERP system for FMCG in Yemen.</li> <li>▪ Apr– May 2007: Evaluation of some technical offers submitted regarding the tender of Maritime Affairs Authorization (MAA) in Yemen (a governmental organization).</li> <li>▪ Mar - Jun 2007: Study of Shihab Agencies' requirement analysis and modelling.</li> <li>▪ Apr - June 2006: Study on GPS Solutions in Yemen, including vehicles and van sales tracking and Black box system requirements in Yemen.</li> </ul> </li> </ul>
--	---

	<p>▪ March - April 2006: I have prepared a requirement analysis study including planning, design, operation, and evolution of software requirements for Unitel GSM Company in Yemen (it is also called Y Cellular Company).</p>
<p>9. <b>Membership of Professional Associations/Visits</b></p>	<ul style="list-style-type: none"> <li>- IEEE Senior Member, USA, 2018 – present.</li> <li>- Review editor board member at Frontiers of Internet of Things, UK, April 2022 – present.</li> <li>- Chair of IEEE Yemen Subsection since November 2018 - present.</li> <li>- Committee member for developing the National Accreditation Reference Standards (NARS) for Undergraduate Computing Programs in Yemen, Council of Accreditation and Quality Assurance (CAQA), Ministry of Higher Education and Scientific Research, Yemen, 2018.</li> <li>- Concerning my research and academic visits, I have been invited many times to the UK between 2010 and 2014 as an academic and research visitor. Two research visits to De Montfort University, UK (in 2009 and 2010) and two research visits to Edinburgh Napier University in the UK.</li> <li>- In 2023, I was appointed as the coordinator of the ARTORRR project for academic exchange between Offenburg University, Germany, and Sana’a University, Yemen. This project is sponsored by the DAAD organization in Germany. I visited Offenburg University in Germany in October 2023 with the Yemeni team for research and academic exchange in the fields of the Internet of Things, Embedded Systems, and Blockchain.</li> </ul>
<p>10. <b>Training/Workshops/Seminar</b></p>	<ul style="list-style-type: none"> <li>- Training for Certified eLearning Lecturer, Professional Charter Certificate, The Academy of eLearning, UK, November 2022.</li> <li>- Training for qualifying external reviewers for academic programs, 28 May- 2 June 2022 at the Council of Accreditation and Quality Assurance (CAQA), Sana’a, Yemen.</li> <li>- Training on Academic Programs Quality and Accreditation, July 2021, Hadhramout University, Mukalla, Yemen.</li> <li>- Training on ABET accreditation for Engineering Programs, July 2021, Hadhramout University, Mukalla, Yemen.</li> <li>- Training course of academic program self-evaluation for national accreditation based on standards of the Council of Accreditation and Quality Assurance (CAQA), Ministry of Higher Education and Scientific Research, 2013.</li> <li>- Training on Preparing Course Specification Phase II, Higher Education Quality Improvement Project (HEQIP), World Bank, Course Specification Workshop Phase II, Taiz University, Yemen.</li> <li>- Training on QIT Leadership, Reviewing the progress of 2012 in World Bank Projects, HEQIP, World Bank Mission 2013, Movenpic, Sana’a, Yemen, Dec 2012.</li> <li>- Training on Preparing Course Specification Phase I, HEQIP, World Bank, Course Specification Workshop Phase I, Taiz University, Yemen, 2012.</li> <li>- Training on Preparing Study Plan and PILOs Mapping, HEQIP, World Bank, Study Plan and PILOs Mapping Workshop, Taiz University, Yemen, 2012.</li> <li>- Training on QIT Leadership, Preparing TOR, and Procurement Process in World Bank Projects, HEQIP, World Bank Mission 2012, Marriot Hotel, Amman, Jordan, April 2012.</li> <li>- Training on Preparing PILOs, Competencies, and PSD, HEQIP Project, World Bank, PILOF Workshop, Taiz University, Yemen, 2012.</li> <li>- Training on Quality Improvement Team (QIT) leadership, HEQIP, World Bank, Movenpic Hotel, Sana’a, Yemen, 2012.</li> <li>- Training course of evaluation of academic program outcomes, Teaching and Learning Centre, University of Science and Technology, Yemen, 2010.</li> </ul>

- Training course of academic program self-evaluation, Teaching and Learning Centre, University of Science and Technology, Yemen, 2010.
- Training course of course syllabus and curriculum, Teaching and Learning Centre, University of Science and Technology, Yemen, 2010.
- Training course of Program Specification Document (PSD), Teaching and Learning Centre, University of Science and Technology, Yemen, 2009.
- Training course on the preparation of academic performance reports, Teaching and Learning Centre, University of Science and Technology, Yemen, 2009.
- Training course of teaching methods for undergraduate students, Teaching and Learning Centre, University of Science and Technology, Yemen, 2009.

#### **Workshops and Seminars:**

- Participated in the 1<sup>st</sup> and the 2<sup>nd</sup> workshops of Internet of Things, Embedded Systems, and Blockchain organized in Cairo, Egypt, during 18-21 Sep 2023 and in Germany, 4-6 October by the ARTORRR project for academic exchange between Offenburg University, Germany, and Sana'a University, Yemen. This project is sponsored by the DAAD organization in Germany.
- Participated in the workshop for preparing the Master Program of Information Systems, Sana'a University, Yemen, 2020.
- Supervising the workshop on preparing the strategy of Al-Hekma University, 2019.
- Supervising the workshop on the strategy of Azal University for Human Development, 2017.
- Participated in the workshop for preparing the Master Program of Information Technology, Sana'a University, Yemen, 2020.
- Participated in the workshop on determining the priorities of scientific research related to ICT in Yemen, Andalus University, Yemen, 2020.
- QIT leader and Chair of the organizing Committee for 4 workshops executed at Taiz University to develop PILOs, Competencies, Study Plans, Course Specification, and PSD of Computer Networks and Distributed Systems, Taiz University, under supervision and sponsorship by World Bank, HEQIP Project, Yemen, 2012.
- Participated as a steering committee member in the 11th symposium of the Arabic International Conference on Information Technology (ACIT'2010), Benghazi, Libya, 14-16 Dec 2010.
- Participated in the workshop for preparing the Program Specification Document (PSD) of Computer Networks and Distributed Systems, Taiz University (governmental university), the program is funded by the World Bank in Yemen, 2012.
- Participated in a workshop on curriculum development for three departments at the University of Science and Technology, Yemen: Computer Science and IT Dept., Computer Engineering Dept., and Information Systems Dept. Title of my presentation: "ACM/IEEE Curriculum of Computing", 2008.
- Participated in a workshop on developing regulations for undergraduate projects in the Computer Science and IT Department, 2008.
- Participated in a workshop on quality assurance of higher education in the Arab world, one activity of the 11th symposium of the Arabic International Conference on Information Technology (ACIT'2009), Sana'a, Yemen, December 2009.
- Participated as a dean's audience in the 9th symposium of the Arabic International Conference on Information Technology (ACIT'2008), Safx, Tunisia.



	<ul style="list-style-type: none"> <li>▪ Participated as a presenter in a workshop on “Sensor Networks”, De Montfort University, Leicester, UK, 2010.</li> <li>▪ Seminar on Developing Academy Programs based on standards of Council of Accreditation and Quality Assurance in Yemen, Azal University, Yemen, 2015.</li> <li>▪ Seminar on Pervasive Computing and Trends, Faculty of Computing, UST, Yemen, 2014.</li> <li>▪ Series of seminars on curriculum development presented to the staff of Taiz University during 4 workshops executed in Taiz University to develop PILOs, Competencies, Study Plans, Course Specification, and PSD of Computer Networks and Distributed Systems, Taiz University, under the sponsorship of World Bank, HEQIP Project, Yemen, 2012-2014.</li> <li>▪ Participated as a paper presenter in the 11th symposium of the Arabic International Conference on Information Technology (ACIT2009), Sana'a, Yemen. (2 presentations)</li> <li>▪ Participated as a paper presenter in the International Conference on Computers and Systems organized by IEEE Proceedings (ICCES'08), Egypt, 2008.</li> <li>▪ Participated as a paper presenter in the International Conference on Computers and Systems organized by IEEE Proceedings (ICCES'07), Cairo, Egypt, 2007.</li> </ul>
11. Language	<p>English: Excellent reading, writing, and speaking, I have been awarded my Ph.D. degree by a British university (De Montfort University, UK).</p> <p>Arabic: Excellent reading, writing, and speaking</p>
12. Referees	<p><b>Prof. Ahmed Al-Shalabi</b>  Dean of the Faculty of Computer and IT, Sana’a University, Sana'a, Yemen  Professional Relationship: the dean of the faculty at Sana’a University, where I work as an associate professor  Email: <a href="mailto:a.alshalabi@su.edu.ye">a.alshalabi@su.edu.ye</a></p> <p><b>Prof. Belal Al-Fuhaidi</b>  Dean of the Faculty of Computing and IT, University of Science and Technology, Sana'a, Yemen (USTY)  Professional Relationship: the dean of the faculty at USTY, where I do some teaching and research duties within the USTY  Email: <a href="mailto:belalarh@ust.edu.ye">belalarh@ust.edu.ye</a></p> <p><b>Prof. Abdulqader Mohsen</b>  Chair of IEEE Yemen Subsection  Associate Professor of AI, Aden University, Yemen  Professional Relationship: Colleague in the Executive Committee of the IEEE Yemen Subsection  Email: <a href="mailto:a.alabadi.fcit@aden-univ.net">a.alabadi.fcit@aden-univ.net</a></p> <p><b>Prof. Axel Sikora</b>  Director of the Institute of Reliable Embedded Systems and Communication Electronics (ivESK), Offenburg University, Germany  Professional Relationship: Academic Exchange Collaboration Project between Sana’a University in Yemen and Offenburg University in Germany during 2023 and 2024  Email: <a href="mailto:axel.sikora@hs-offenburg.de">axel.sikora@hs-offenburg.de</a></p>

	<p><b>Prof. Ahmed Al-Dubai</b>  Leader of Network Theme – Centre of Distributed Computing, Networks &amp; Security,  College of Computing, Edinburgh Napier University, 10 Colinton Road, EH10 5DT,  Edinburgh, UK.  Professional Relationship: Academic Visit Collaboration  Email: <a href="mailto:a.al-dubai@napier.ac.uk">a.al-dubai@napier.ac.uk</a></p> <p><b>Prof. AbdulRahman Alsewari</b>  Senior Lecture at the School of Computing and Digital Technology, Birmingham City  University, UK  Professional Relationship: Collaboration in the IEEE conference organization  Email: <a href="mailto:Rahman.alsewari@bcu.ac.uk">Rahman.alsewari@bcu.ac.uk</a></p> <p><b>Prof. Faisal Saeed</b>  Senior Lecture at the School of Computing and Digital Technology, Birmingham City  University, UK  Professional Relationship: Collaboration in the IEEE conference organization  Email: <a href="mailto:faisal.saeed@bcu.ac.uk">faisal.saeed@bcu.ac.uk</a></p>
<p>13. Publication List (Scopus/Web  of Science Papers)</p>	<p><b>AI Publications:</b></p> <ol style="list-style-type: none"> <li>1. A. Shujaaddeen, F. M. Ba-Alwi, <b>A. T. Zahary</b>, A. S. Alhegami, A. Alsabry and A. M. Al-Badani, "A Binary and Multi Classification Model on Tax Evasion: A Comparative Study," <i>2024 1st International Conference on Emerging Technologies for Dependable Internet of Things (ICETI)</i>, Sana'a, Yemen, 2024, pp. 1-9, doi: 10.1109/ICETI63946.2024.10777224.</li> <li>2. A. Shujaaddeen, F. M. Ba-Alwi, <b>A. T. Zahary</b>, A. S. Alhegami, A. Alsabry and A. M. Al-Badani, "A Binary and Multi Classification Model on Tax Evasion: A Comparative Study," <i>2024 1st International Conference on Emerging Technologies for Dependable Internet of Things (ICETI)</i>, Sana'a, Yemen, 2024, pp. 1-9, doi: 10.1109/ICETI63946.2024.10777224.</li> <li>3. H. E. Sharif, <b>A. T. Zahary</b> et al., "Smart Assistant to Choose the Best Resume Using Natural Language Processing and Machine Learning," <i>2024 1st International Conference on Emerging Technologies for Dependable Internet of Things (ICETI)</i>, Sana'a, Yemen, 2024, pp. 1-6, doi: 10.1109/ICETI63946.2024.10777186.</li> <li>4. R. Al-Dilami, <b>A. T. Zahary</b>, A. Al-Sharafi, O. Al-Anashi and S. Maresh, "Face Recognition Approach Using the Deep Learning Techniques," <i>2024 1st International Conference on Emerging Technologies for Dependable Internet of Things (ICETI)</i>, Sana'a, Yemen, 2024, pp. 1-7, doi: 10.1109/ICETI63946.2024.10777116.</li> <li>5. Baktayan, A.A., <b>Zahary, A.T.</b>, Sikora, A. et al. Computational offloading into UAV swarm networks: a systematic literature review. <i>J Wireless Com Network</i> 2024, 69 (2024). <a href="https://doi.org/10.1186/s13638-024-02401-4">https://doi.org/10.1186/s13638-024-02401-4</a></li> <li>6. A. Shujaaddeen, F. Mutaher Ba -Alwi, <b>A. T. Zahary</b> and A. Sultan Alhegami, "A Model for Measuring the Effect of Splitting Data Method on the Efficiency of Machine Learning Models: A Comparative Study," <i>2024 4th International</i></li> </ol>

	Conference on Emerging Smart Technologies and Applications (eSmarTA), Sana'a, Yemen, 2024, pp. 1-13, doi: 10.1109/eSmarTA62850.2024.10639022.
7.	N. A. Al-Khulaidi, <b>A. T. Zahary</b> , A. A. Al-Shargabi and M. A. S. Hazaa, "Machine Learning for Intrusion Detection in Vehicular Ad-hoc Networks (VANETs): A Survey," 2024 4th International Conference on Emerging Smart Technologies and Applications (eSmarTA), Sana'a, Yemen, 2024, pp. 1-10, doi: 10.1109/eSmarTA62850.2024.10639016.
8.	R. Al-Dilami, F. Alqasemi, <b>A. T. Zahary</b> , A. Al-Wahabi and A. Al-Sanaani, "A Comparative Study for Pneumonia Diagnosis Using the Deep Learning Techniques," 2023 3rd International Conference on Emerging Smart Technologies and Applications (eSmarTA), Taiz, Yemen, 2023, pp. 1-8, doi: 10.1109/eSmarTA59349.2023.10293523.
9.	A. Kadir Hamid, F. N. Al-Wesabi, N. Nemri, <b>A. Zahary</b> and I. Khan, "An optimized algorithm for resource allocation for d2d in heterogeneous networks," Computers, Materials & Continua, vol. 70, no.2, pp. 2923–2936, 2022.
10.	A. Al-Ezzi, A. A. Al-Shargabi, F. Al-Shargie, and <b>A. T. Zahary</b> , "Complexity Analysis of EEG in Patients with Social Anxiety Disorder Using Fuzzy Entropy and Machine Learning Techniques," in IEEE Access, vol. 10, pp. 39926-39938, 2022, doi: 10.1109/ACCESS.2022.3165199.
11.	E. A. Shammar, <b>A. T. Zahary</b> and A. A. Al-Shargabi, "A Survey of IoT and Blockchain Integration: Security Perspective," in IEEE Access, vol. 9, pp. 156114-156150, 2021, doi: 10.1109/ACCESS.2021.3129697.
12.	N. A. Abu-Taleb, F. Hasan Abdulrazzak, <b>A. T. Zahary</b> and A. M. Al-Mqdashi, "Offloading Decision Making in Mobile Edge Computing: A Survey," 2022 2nd International Conference on Emerging Smart Technologies and Applications (eSmarTA), Ibb, Yemen, 2022, pp. 1-8, doi: 10.1109/eSmarTA56775.2022.9935407.
13.	Fahd N Al-Wesabi, Abdelzahir Abdelmaboud, Adnan A Zain, Mohammed M Almazah, <b>Ammar Zahary</b> , Tampering Detection Approach of Arabic-Text Based on Contents Interrelationship, Intelligent Automation and Soft Computing (ISI, Q3), Tech Science Press, Vol. 27, No. 2, Pages: 483-498, Jan 2021.
14.	Fahd A Alqasemi, Hamza Q Alabbasi, Fathi G Sabeha, Ahmed Alawadhi, Sanad Kahlid, <b>Ammar Zahary</b> , Feature Selection approach using KNN supervised learning for Content-Based Image Retrieval, 2019 First International Conference of Intelligent Computing and Engineering (ICOICE), Mukalla, Yemen, IEEE Proceedings, Pages 1-5, 15/12/2019.
15.	Asma Al-Shargabi, Francois Siewe, <b>Ammar Zahary</b> , "Quality of Context in Context-Aware Systems", Published in EAI Endorsed Transactions on Context-aware Systems and Applications, The European Alliance for Innovation (EAI), Ghent, Belgium, Volume 4, Issue 12, e5, July 2017. <a href="http://eudl.eu/doi/10.4108/eai.6-7-2017.152761">http://eudl.eu/doi/10.4108/eai.6-7-2017.152761</a> .
16.	Amal Ramzi Al-Saqqaf, <b>Ammar Zahary</b> , "Online Arabic Handwritten Character Recognition Using Online-Offline Feature Extraction and Back-Propagation Neural Network", the 1st International Conference on Advanced Technologies for Signal and Image Processing (ATSIP'14), IEEE Proceedings, Sousse, Tunis, 17-19 Mar 2014.

**Other Publications:**

- <sup>17.</sup> Al-Matari, N.Y., Zahary, A.T. & A. Al-Shargabi, A. A survey on advancements in blockchain-enabled spectrum access security for 6G cognitive radio IoT networks. *Sci Rep* 14, 30990 (2024). <https://doi.org/10.1038/s41598-024-82126-y>
- <sup>18.</sup> A. T. Zahary, N. Ali Al-Shaibany and A. Sikora, "A review of Intrusion Detection Systems for the Internet of Things," *2024 1st International Conference on Emerging Technologies for Dependable Internet of Things (ICETI)*, Sana'a, Yemen, 2024, pp. 1-6, doi: 10.1109/ICETI63946.2024.10777253.
- <sup>19.</sup> L. A. Al-Bhloly, A. Y. Almutawkkil and A. T. Zahary, "Micro-Learning (ML): A Comprehensive Survey," *2024 1st International Conference on Emerging Technologies for Dependable Internet of Things (ICETI)*, Sana'a, Yemen, 2024, pp. 1-15, doi: 10.1109/ICETI63946.2024.10777206.
- <sup>20.</sup> Baktayan, A. Thabit Zahary and I. Ahmed Al-Baltah, "A Systematic Mapping Study of UAV-Enabled Mobile Edge Computing for Task Offloading," in *IEEE Access*, vol. 12, pp. 101936-101970, 2024, doi: 10.1109/ACCESS.2024.3431922.
- <sup>21.</sup> W. A. N. A. Al-Nbhany, A. T. Zahary and A. A. Al-Shargabi, "Blockchain-IoT Healthcare Applications and Trends: A Review," in *IEEE Access*, vol. 12, pp. 4178-4212, 2024, doi: 10.1109/ACCESS.2023.3349187.
- <sup>22.</sup> N. A. AL-Khulaidi, A. T. Zahary, M. A. S. Hazaa and A. A. Nasser, "Covert Channel Detection and Generation Techniques: A Survey," *2023 3rd International Conference on Emerging Smart Technologies and Applications (eSmarTA)*, Taiz, Yemen, 2023, pp. 01-09, doi: 10.1109/eSmarTA59349.2023.10293582.
- <sup>23.</sup> M. A. Areqi, A. T. Zahary and M. N. Ali, "State-of-the-Art Device-to-Device Communication Solutions," in *IEEE Access*, vol. 11, pp. 46734-46764, 2023, doi: 10.1109/ACCESS.2023.3275915.
- <sup>24.</sup> Elham A. Shammar, Ammar T. Zahary, Asma A. Al-Shargabi, "An Attribute-Based Access Control Model for Internet of Things Using Hyperledger Fabric Blockchain", *Wireless Communications and Mobile Computing*, vol. 2022, Article ID 6926408, 25 pages, 2022. <https://doi.org/10.1155/2022/6926408>.
- <sup>25.</sup> M. A. Hadi, I. A. Al-Baltah, and A. T. Zahary, "A survey on mobile payment applications and adopted theoretical models", *Sustainable Engineering and Innovation*, vol. 4, no. 2, pp. 112-126, Jul. 2022.
- <sup>26.</sup> M. A. A. Almekhlaf, F. N. Al-Wesabi, I. Khan, N. Nemri, K. Mahmood et al., "Analysis and assessment of wind energy potential of Socotra archipelago in Yemen," *Computers, Materials & Continua*, vol. 70, no.1, pp. 1177–1193, 2022.
- <sup>27.</sup> T. H. AL-Rawhani and A. T. Zahary, "Strategic Information System Planning: A Review," *2022 International Conference on Intelligent Technology, System and Service for Internet of Everything (ITSS-IoE)*, Hadhramaut, Yemen, 2022, pp. 1-8, doi: 10.1109/ITSS-IoE56359.2022.9990967.
- <sup>28.</sup> S. Bashir, I. Khan, F. N. Al-Wesabi, N. Nemri, A. Zahary et al., "An optimized algorithm for d2d-mimo 5g wireless networks," *Computers, Materials & Continua*, vol. 68, no.3, pp. 3029-3044, 2021.

- <sup>29.</sup> Redwan A. Al-dilami, Ammar Thabit Zahary, Adnan Z. Al-Saqqaf, Enhancing the Distribution of Idle Cost for Scheduling Tasks without Setup Cost in Cloud Computing, *Journal of Mathematical Problems in Engineering* (ISI, Scopus), Hindawi, Vol. 2021, No. Article ID 8861569, 13 Pages, April 2021.
- <sup>30.</sup> W. M. Ismael, M. Gao, A. Zahary, Z. Yemeni, Y. Ibrahim, and A. Hawban, Edge-based Anomaly Data Detection Approach for Wireless Sensor Network-based Internet of Things, 2021 International Conference of Technology, Science and Administration (ICTSA), IEEE Proceedings, 2021, pp. 1-6, doi: 10.1109/ICTSA52017.2021.9406548.
- <sup>31.</sup> W. M. Ismael, M. Gao, A. Zahary and Z. Yemeni, LFDDRA-IoT: Lightweight Faulty Data Detection and Recovery Approach for Internet of Things, 2021 International Conference of Technology, Science and Administration (ICTSA), IEEE Proceedings, 2021, pp. 1-6, doi: 10.1109/ICTSA52017.2021.9406533.
- <sup>32.</sup> M. A. Areqi, M. N. Ali and A. T. Zahary, "A Theoretical Framework for Telecom Internet of Things in Developing Countries," 2021 International Conference of Modern Trends in Information and Communication Technology Industry (MTICTI), Sana'a, Yemen, 2021, pp. 1-7, doi: 10.1109/MTICTI53925.2021.9664778.
- <sup>33.</sup> F. Alqasemi, S. Al-Hagree, R. Q. Shaddad and A. T. Zahary, "An IEEE Xplore Database Literature Review Concerning Internet of Everything During 2020-2021," 2021 International Conference on Intelligent Technology, System and Service for Internet of Everything (ITSS-IoE), Sana'a, Yemen, 2021, pp. 1-8, doi: 10.1109/ITSS-IoE53029.2021.9615285.
- <sup>34.</sup> Omar Ahmed Al-Motwakel, Ammar Thabit Zahary, Ubiquitous Computing and its Security Concerns, 2019 First International Conference of Intelligent Computing and Engineering (ICOICE), Mukalla, Yemen, IEEE Proceedings, Pages 1-16, 15/12/2019.
- <sup>35.</sup> Sarah Abdalrahman Alshqaqi, Ammar T Zahary, Mohammed Zayed, Ubiquitous Computing Environment: literature review, 2019 First International Conference of Intelligent Computing and Engineering (ICOICE), Mukalla, Yemen, IEEE Proceedings, Pages 1-8, 15/12/2019.
- <sup>36.</sup> Elham Shammar and Ammar Thabit Zahary, Internet of Things (IoT): a survey of techniques, operating systems, and trends, *Library High Tech Journal*, (Q1, Scopus), Emerald, London, UK, 5/10/2019.
- <sup>37.</sup> Mansoor N Ali, Manal A Alareqi, Ammar T Zahary, Opportunities and Obstacles to Deploy Internet of Things Services by Telecom Operators in Developing Countries (Case Study Telecom Operators in Yemen), *Asian Journal of Research in Computer Science*, Singapore, Pages 1-14, 1/4/2019.
- <sup>38.</sup> Waleed M Ismael, Mingsheng Gao, Asma A Al-Shargabi, Ammar Zahary, An In-Networking Double-Layered Data Reduction for Internet of Things (IoT), *Sensors Journal* (Q1, ISI and Scopus), MDPI (Multidisciplinary Digital Publishing Institute), Basel, Switzerland, Volume 19, Issue 4, Pages 795, 1/2019.
- <sup>39.</sup> Reem Fatwan Shaibani, Ammar Thabit Zahary, Survey of Context-Aware Video Transmission over Vehicular Ad-Hoc Networks (VANETs), *Endorsed Transactions*

- on Mobile Communications and Applications, European Alliance for Innovation (EAI), Gent, Belgium, Volume 18, Issue e4, 1/2019.
- <sup>40.</sup> Asrar A. Baktyan, Ammar Thabit Zahary, A Review on Cloud and Fog Computing for IoT: Platforms Perspective, EAI Endorsed Transactions on Internet of Things, European Alliance for Innovation (EAI), Gent, Belgium, Volume 4, Issue 14, Pages e5, 12/2018.
  - <sup>41.</sup> Manal A. Alareqi, Fahd N. Al-Wesabi, Ammar T. Zahary, Mansour N. Ali, A Survey of Internet of Things Services Provision by Telecom Operators, EAI Endorsed Transactions on Internet of Things, European Alliance for Innovation (EAI), Gent, Belgium, Volume 18, Issue e2, Pages 1-11, 20/9/2018.
  - <sup>42.</sup> Redwan Al-Dilami, Adnan Zain Al-Saqqaf, Ammar Thabit Zahary, "An Enhanced Algorithm for Cloud Scheduling with Setup Cost", International Journal of New Computer Architectures and their Applications, Vol. 8, No. 3, Pages: 129-141, September 2018. <http://sdiwc.net/digital-library/an-enhanced-algorithm-for-cloud-scheduling-with-setup-cost.html>.
  - <sup>43.</sup> Walid Shaher M. Yousef, Muhammad Rafie Hj. Mohd. Arshad, Ammar Zahary, "Vehicle Rewarding for Video Transmission Over VANETs Using Real Neighborhood and Relative Velocity (RNRV)", Journal of Theoretical and Applied Information Technology, Vol. 95 No.2, 31st January 2017. [www.jatit.org/volumes/Vol95No2/2Vol95No2.pdf](http://www.jatit.org/volumes/Vol95No2/2Vol95No2.pdf)
  - <sup>44.</sup> Walid Shaher M. Yousef, Muhammad Rafie Hj. Mohd. Arshad, Ammar Zahary, "Mobility and Traffic-Based Analytical Study for Single and Multipath Routing Protocols in Mobile Ad Hoc Network", International Journal of Digital Content Technology and its Applications (JDCTA), Volume 8, Number 2, April 2014.
  - <sup>45.</sup> Ammar Zahary and Aladdin Ayesh, "An Analytical Review for Multipath Routing in Mobile Ad Hoc Networks", International Journal of Ad Hoc and Ubiquitous Computing (ISI), Inderscience Publishers, Volume 5, No. 2, January 2010.
  - <sup>46.</sup> Abdulsalam Alammari, Ammar Zahary and Aladdin Ayesh, "Multipath Contribution of Intermediate Nodes in AODV Extensions", IEEE Proceedings, IEEE Proceedings, the International Conference on Computers and Systems (ICCES'09), Cairo, Egypt, December 2009, 978-1-4244-5844-8/09.
  - <sup>47.</sup> Ammar Zahary and Aladdin Ayesh, "Threshold Value of Efficient Multiple Routes in AODV Extensions", IEEE Proceedings, IEEE Proceedings, the International Conference on Computers and Systems (ICCES'09), Cairo, Egypt, December 2009.
  - <sup>48.</sup> Ayesh, "On-demand Multiple Route Maintenance in AODV", IEEE Proceedings, the International Conference on Computers and Systems (ICCES'08), Cairo, Egypt, December 2008.
  - <sup>49.</sup> Ammar Zahary and Aladdin Ayesh, "Analytical Study to Detect Threshold Number of Efficient Routes in Multipath AODV Extensions", IEEE Proceedings, the International Conference on Computers and Systems (ICCES'07), Cairo, November 2007.