Dr. Asma Ahmed Esmail Alhashmi

1. PERSONAL DATA

Name: Asma Ahmed Esmail Alhashmi

Nationality: Yemeni

Email: asma.alhashmi@nbu.edu.sa
asma.alhashmi@yahoo.com

2. ACADEMIC/PROFESSIONAL PARTICULARS

(a)   Field of Specialization:

Cyber Security, Software Engineering, Web Engineering.

(b)   Academic Qualifications

1. **Doctorate in Computer Science**, Department of Studies in Computer Science, 2015, Mysore University, India.

2. **Master of Computer Application,** 2009, SMA, India, **(Secured First class with distinction).**

3. **Master of Science in Information Technology,** 2008, SMU, India, **(Secured First class).**

4. **Bachelor of Science in Information Technology,** 2006, SMU, India, **(Very Good).**

(c)   Academic Honors and Awards

Name of the Award	Awarding Institution	Year
Scholarship Award based on merit to study bachelor degree	Government of Yemen	2004
Scholarship Award based on merit to study Master	Government of Yemen	2007
Scholarship Award based on merit to study Ph.D	Government of Yemen	2011
Award for Academic Excellence	Indian Council for Cultural Relations (ICCR), Mysore, India	2008
Award for Academic Excellence	Embassy of Yemen, New Delhi, India	2008
Award for Academic Excellence.	Federation of International Students Associations Mysore (FISAM)	2010
Award for Academic Excellence	Indian Council for Cultural Relations (ICCR), Mysore, India	2010

| Award for Academic Excellence | Indian Council for Cultural Relations (ICCR), Mysore, India | 2013 |
| Award for Academic Excellence | Embassy of Yemen, New Delhi, India | 2015 |

(d)   Membership of Professional Bodies

Name of Professional Body	Membership Grade	Joining Date
Indian Science Congress Association	Member	Dec/2015
International Congress of E-government (ICEG), India	Member	Dec/2014
Computer Society of India	Member	Dec/2010

(e)   Language Proficiency

List of languages	spoken	written	level of proficiency
Arabic	Excellent	Excellent	Excellent
English	Excellent	Very Good	Very Good

3.   CAREER DETAILS

Academic Positions Held

Rank	Department	College	University	Country	*Period*
Assistant Professor	Computer Science	Science	Northern Boarder University	Saudi Arabia	Nov/2017 - Now
Assistant Professor	Computer Science& Engineering	Farooqia polytechnic College for Womens	VTU	India	July/2016-Sep/2017

4.   Teaching

(a)   Summary of Courses Taught

Course Name

Principals of Information security
Database Management System
Operating System
Software Engineering
Information security
Human Computer Interaction

(b)   Training

Training Activity	Training Institution	Country	Period
6 training programs in Quality and academic accreditation	Northern border University	Saudi Arabia	2019/2020
Faculty development program in "Cyber Security & Machin Learning"	Department of Computer Science and Engineering at SJCE, JSS Science and Technology University, Myosre,	India	One week 16/07/2018 20/07/2018
Faculty development program in "Foundation Course on Data Analytics & Learning"	Department of Information Science and Engineering at SJCE, JSS Science and Technology University, Myosre	India	05/07/2018 – 07/07/2018
Learning Tools and Techniques in Big Data Computing for Diverse Applications	SJCE Engineering College And Deakin University, Australia	India	27-12-2016 to 06-01-2017
One-week faculty development program on. "Cloud computing"	National Institute of Engineering	India	22-26 July 2013.
Statistics analysis of Research Data using SPSS	SDMIMD	India	8-9 Feb. 2012.
One week faculty development program on 'Research Opportunities and Challenges in Web Content and Mining'.	SJCE Engineering College	India	March 2012
Learning Research Methodology course	University of Mysore	India	March 2010

5. RESEARCH

(a) Research Interests

List of research interests in order of priority.

- Cyber Security,
- E-government,
- Cloud Computing,
- Human Computer Interaction,
- Software Engineering.

(b) Research Projects

1- Cyber Security research project No. 1385 within the international collaboration, funded by Ministry of Education, Saudi Arabia.
2- Smart home research project No. 7828, funded by Northern Border University, Saudi Arabia.
3- Cyber Bulling research project No. 7871, funded by Northern Border University, Saudi Arabia.
4- Phishing research project No. 7926, funded by Northern Border University, Saudi Arabia.
5- Digital Forgery research project No. 7974, funded by Northern Border University, Saudi Arabia.

(c)   Publications/Citations Data

Type of Publication	Number of Publications
Articles in International Refereed Journals	16
Conference Papers	9

Citation Source	Number of Citations
Articles	143

List of Publications

(a)   International Refereed Journals

1. **Asma A. Al-Hashmi**, Fuad A. Ghaleb, A. Al-Marghilani, Abdulsamad E. Yahya, Shouki A. Ebad, Muhammad Saqib, Abdulbasit A. Darem "Deep-Ensemble and Multifaceted Behavioral Malware Variant Detection Model". IEEE Access, (Accepted for publication 2022).

2. **Asma A. Alhashmi**, Abdulbasit Darem and Jemal H. Abawajy "Taxonomy of Cybersecurity Awareness Delivery Methods: A Countermeasure for Phishing Threats", International Journal of Advanced Computer Science and Applications (IJACSA), 2021.

3. AA Darem, FA Ghaleb, **AA Al-Hashmi**, JH Abawajy, SM Alanazi, "An Adaptive Behavioral-Based Incremental Batch Learning Malware Variants Detection Model Using Concept Drift Detection and Sequential Deep Learning ", IEEE Access 9, 97180-97196.

4. **Alhashmi,** A.A., Darem, A.A. "Consensus-based ensemble model for Arabic cyberbullying detection" Computer Systems Science and Engineering, 2022, 41(1), pp. 241–254.

5. A Darem, J Abawajy, A Makkar, **A Alhashmi,** S Alanazi "Visualization and deep-learning-based malware variant detection using OpCode-level features"" Future Generation Computer Systems, (2021) 314-323

6. Abawajy, Jemal, Abdulbasit Darem, and **Asma A**. Alhashmi. "Feature Subset Selection for Malware Detection in Smart IoT Platforms." Sensors 21.4 (2021): 1374.

7. Abdulbasit Darem, and **Asma A. Alhashmi**. ''Digital Forgery Detection of Official Document Images in Compressed Domain''. IJCSNS International Journal of Computer Science and Network Security, VOL.20 No.12, December 2020.

8. Abawajy, J.H., Ninggal, M.I.H., Aghbari, Z.A., Darem, A.B., **Alhashmi, A.** "Privacy threat analysis of mobile social network data publishing " Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, LNICSTthis link is disabled, 2018, 239, pp. 60–68

9. Mokhtar A. Alworafi, Atyaf Dhari, **Asma A. Al-Hashmi**, Suresha, A. Basit Darem,"CostAware Task Scheduling in Cloud Computing Environment", International Journal of Computer Network and Information Security(IJCNIS), Vol.9, No.5, pp. 52-59, 2017.DOI: 10.5815/ijcnis.2017.05.07

10. **Asma Alhashmi,** Darem A. Basit and Suresha. "Predict the Potential Users of E-government Using Communication Capabilities Model (CCM)". IJARCSMS, India,Vol. 3, Issue 4 (April-2015).

11. **Asma Alhashmi,** Darem A. Basit and Suresha. "Investigating the user profile of potential users of e-government in Yemen." *IJRCCT* 4.1, India, 014-021. 2015

12. Alhashmi, **Asma A.,** and Abdulbasit Darem. "Building a tool to extract data from users and potential users of e-Government." International Journal of Innovative Research in Computer and Communication Engineering 3.1 (2015): 311-321

13. **Asma . A,** Darem A. Basit, and Suresha, "Validation and Verification of the Dimensionality of E-Government Quality Measurement Scale". *International Journal of Computer Trends and Technology.* India, (ISSN 2231-2803, Volume 5, Issue 5, May 2014).

14. Darem A. Basit, Suresha, and **Asma,** "Evaluation of the Use of Local Government Websites: Internet Users Perspective", IUP *Journal of Information Technology*. India,June 2011.

15. Darem A. Basit, Suresha, and **Asma**, "E-government Maturity Models", *Asian Journal of Development Matters,* Vol-4(2), India, ISSN-0976-4674. May 2010.

16. Darem A. Basit, Suresha, and **Asma**, "Promoting and Increase the Take-Up of E-governance Services through IBCs", *Research Link Journal*, issue-83, Val-IX(12) India, ISSN- 09731628. February-2011.

(b) Conference Papers

1. Alworafi M.A., **Al-Hashmi A.,** Dhari A., Suresha, Darem A.B. (2018) Task-Scheduling in Cloud Computing Environment: Cost Priority Approach. In: Guru D., Vasudev T., Chethan H., Kumar Y. (eds) Proceedings of International Conference on Cognition and Recognition. Lecture Notes in Networks and Systems, vol 14. Springer, Singapore.

2. Alworafi, Mokhtar A., Atyaf Dhari, **Asma A. Al-Hashmi**, and A. Basit Darem. "An improved SJF scheduling algorithm in cloud computing environment." In *Electrical, Electronics, Communication, Computer and Optimization Techniques (ICEECCOT), 016 International Conference on*, pp. 208-212. IEEE, 2016

3. Mokhtar A. Alworafi, Atyaf D., **Asma A. Al-Hashmi**, Suresha and Darem. A. Basit, "An Improved SJF Scheduling Algorithm in Cloud Balancing Environment",

International Conference on Electrical, Electronics, Communication, Computer and Optimization Techniques (ICEECCOT2016), IEEE, 09 - 10 Dec 2016, Gsss Institute of Engineering and Technology for Women Mysuru, India. 2016.

4. Darem A. Basit, **Asma** and Suresha,, "E-Government as a New Direction in Government Management: Challenges and Research Opportunities", 3rd International Conference on New Direction in Business, Management, Finance and Economics (ICNDBM 2015) organized by Istanbul Aydin University, Istanbul, Turkey on Nov 6, 2015.

5. **Asma Al-hashmi**, Darem A. Basit, and Suresha. "The Maturity of E-government Websites in the Republic of Yemen ", 9th International Conference of E-Government Dec- 2012.

6. Darem A. Basit, Suresha, and **Asma**, "Increasing the take-up of using E-government Services through Internet Browsing Centers", 1st International Conference of Electronic Management (FICEG), Libya, June 2010,.

7. Darem A. Basit, Suresha, and **Asma**, "Enhancing the G2G Services by Accounting and Financial Management System (AFMIS)", *Critical Thinking in E-Governance* in 6th International Conference of E-Governance 2008 proceedings, 18 - 20 December, New Delhi.2008.

8. Darem A., Suresha and **Asma Al-hashmi,** "Biztalk as Interoperability Tool to Application Integration in EGovernment", *Emerging Technologies in E-Government* in 6th International Conference of EGovernance 2008 proceedings, 18 - 20 December, New Delhi. 2008

9. **Al-Hashmi, Asma**, and Abdul Basit Darem. "Understanding phases of E-government project." New Delhi: Retrieved from http://www. csi-sigegov. org/emerging_pdf/17_152157.pdf (2008).

Participation in Regional & International Conferences

1. The First International Conference on Artificial Intelligence & Data Analytics CAIDA 2021.

2. International Conference on Computer and Information Sciences (ICCIS 2019) held in Jouf University, College of Computer and information sciences on April 3–4, 2019

3. One week faculty development program in "Cyber Security & Machin Learning" organized by Department of Computer Science and Engineering at SJCE, JSS Science and Technology University, Myosre, India, 16/07/2018 – 20/07/2018.

4. Three day faculty development program in "Foundation Course on Data Analytics & Learning" organized by Department of Information Science and Engineering at SJCE, JSS Science and Technology University, Myosre, India, 05/07/2018 – 07/07/2018.

5. 10 days Gian Program on "Tools and Techniques in Big Data Computing for Diverse Applications", SJCE college of Engineering Mysore, India, 27/12/2016-06/01/2017.

6. The International Conference on Cognition and Recognition- 2016 (ICCR2016). MIT, Mysuru, India, 30-31 Dec 2016,

7. International Conference on Electrical, Electronics, Communication, Computer and Optimization Techniques (ICEECCOT2016), IEEE, Gsss Institute of Engineering and Technology for Women Mysuru, India, 09 - 10 Dec 2016.

8. "Two Day National Workshop on Research Methodology Language Skills & Writing Practices", DE PAUL INSTITUTE OF SCIENCE @ TECHNOLOGY (DiST), Angamaly, Kerala, India, Sep. 30th - Oct. 1st 2016.

9. One week faculty development programme on 'Internet of Things (IoT) and its Applications' at SJCE College of Engineering Mysore, India, 8th to 12th September 2016.

10. 2nd international conference on Cognitive Computing and Information Processing CCIP 2016, IEEE, SJCE College of Engineering Mysore, India, 12th & 13th August 2016.

11. Five day National Seminar on "Multimedia Data Analysis", SJCE college of Engineering Mysore,India, 26/04-30/04/2016.

12. UGC Sponsored Two day National Conference on 'Emerging Trends in Computer Science and Technology' held at St. Philomena's College, University of Mysore, Mysore, India on 17th & 18th February 20016.

13. Workshop on High Performance Computing HPC, organized by High Performance Computing Centre, DoS in Computer Science, University of Mysore, India on 11th, Feb. 2015.

14. "International Innovation Conference" organized by BML Munjal University in association with Imperial College Business School, Robert H. Smith School of Business at University of Maryland and Lee Kong Chian School of Business at Singapore Management University. at Delhi NCR, India, held on 9-10 January 2016.

15. 103rd Indian Science Congress, hosted by Mysore University, Mysore, India from 3-7 January 2016.

16. (ICERECT-2015) International Conference on Emerging Research in Electronics, Computer Science and Technology, Mandya, Karnataka, India. 17th to 19th December 2015.

17. 3rd International Conference on New Direction in Business, Management, Finance and Economics (ICNDBM2015) organized by Istanbul Aydin University, Istanbul, Turkey on Nov 6, 2015.

18. "Intel HPC Code Modulization Parellization, Learning Shop–2015", organized by High Performance Computing Centre, DoS in Computer Science, Mysore University, India, 7th, July 2015.

19. "Next-Generation Computing and Challenges", UGC Sponsored State Level Conference, organized by Computer Science Dep., Mahajana PG Wing, Mysore, India on 11th, September 2015.

20. "Impact of Information Technology, Animation, Gaming & UFX on Society", organized by: CIST, University of Mysore, India on 19th May 2015.

21. International Conference on Computer Communications and Networking (I3CN). Coorg Institute of Technology, India, May 8, 2015.

22. Three days International Conference on "Climate Change – Inconvenient Truths Status and May forward" Organized by: St. Philomena's College, Mysore, India, April, 9the – 11th, 2015.

23. "One day State level Seminar on Multimedia Information System", organized by: MMK & SDM Mahila Maha Vidyalaya, Mysore, India on 1st October 2015.

24. International conference on climate change inconvenient truths status and way forward (ICCC 2015). St. Philomena's College. Mysore, , India, 9-11 April 2015.

25. International Conference on community empowerment in changing world- Issues and challenges, University of Mysore, , Mysore, , India, Feb 27- 28 2015

26. A 2-Day international Conference on "Corporate Social Responsibility – Approaches and Practices for Inclusive Growth" was organized by SDMIMD, India during November 13&14, 2014.

27. The International Conference on Contemporary Computing and Informatics (IC3I), Sri Jayachamarajendra College Of Engineering (SJCE), Mysore, , India, 27 - 29 November 2014.

28. The Second International Conference on Big Data Analytics (BDA 2013), MYRA School of Business in Mysore, , India, 16-18 December 2013.

29. IEEE 2013 International Conference on Advances in Computing, Communications and Informatics (ICACCI-2013), Sri Jayachamarajendra College Of Engineering (SJCE), Mysore, August 22-25, 2013.

30. One-week faculty development program on. "Cloud computing", at National. Institute of Engineering, India 22nd – 26th July 2013.

31. Seminar on "Overcoming Speculative Hindrances in Foreign Education", MICA, Mysore, India, 1st July 2013.

32. 9 th International Conference on e-Governance (ICEG-2012). SCMS-COCHIN, Cochin, Kerala, India, held on 29-30, Dec, 2012.

33. "International conference on education for mitigation of human conflicts", Annamalai University, , India, 18-19, February 2010.

34. National Seminar on "E-Governance in Technical Education-National, State, Institutional Perspective", PBMMPGC, Mysore, India on Sept. 28th 2012.

35. Statistics with R-Excel workshop, conducted at SDM, India on June 1 & 2, 2012.

36. One week faculty development program on 'Research Opportunities and Challenges in Web Content and Mining' at Sri Jayachamarajendra College of Engineering (SJCE), Mysore on, India, 12th to 16th March 2012.

37. 3rd ICCR (International Conference of Cognitive &Recognition) 2011, 9-11 of Dec 2011, DoS in Computer Science, University of Mysore.

38. NASSCOM Mysore 2.0 Conference on 15th October, 2011, at Mysore.

39. Workshop on "Research Methodology and Publishing Papers", organized by SDM Institute for Management Development, Dec 2009, Mysore India.

40. Sixth International Conference on Webometrics, Informetrics and Scientometrics(WIS) &Eleventh COLLNET Meeting, October 19 – 22, 2010 University of Mysore.

41. 1st International Conference of Electronic Management (FICEG), June 2010, Libya.

42. 7th International Conference of E-Government April-2010 Indian Institute of Management (IIM) Bangalore-India.

43. 15th International Conference on Management of Data COMAD 2009, Dec-2009 InfosysIndia.

44. National Conference on Information Technology and its Application Nov-2009 University of Mysore-India.

45. National conference of Web 2.0   Aug-2008, University of Mysore-India.

6.   SERVICE

(a)   Membership of Conference Committees

1. Track Chair at Information Security track at "The first international conference of advanced computing and informatics" Morocco, 2020.

2. Track Chair at Data Science track at "The First International Conference of Intelligent Computing and Engineering ICOICE 2019" Dec.2019.

3. Program Committee Members at "International Conference of Applications and Techniques in Cyber Intelligence (ATCI2019) on Web intelligence and Intelligent Precision Mining".

4. International Technical Committee in Recent Trends in Data Science and Soft Computing: Proceedings of the 3rd International Conference of Reliable Information and Communication Technology (IRICT 2018)

5. Program Chair at 2nd International Conference of Reliable Information and Communication Technology 2017 (IRICT 2017). The conference will be held in UTM, Malaysia, on April 23-24, 2017

6. Session Chairperson, "the One day seminar on 'Information & Knowledge Management using Big Data Computing: Challenges and Research Opportunities",

held at St. Philomena's College, University of Mysore, Mysore, India. January 10, 2017

7. Session Chairperson "UGC Sponsored Two day National Conference on Emerging Trends in Computer Science and Technology" held at St. Philomena's College, University of Mysore, Mysore, on 17th & 18th February 20016

8. Organizing Committee Member, 103rd Indian Science Congress, hosted by University of Mysore, Mysore from 3-7 January 2016.

9. Organizing Committee Member, 3rd ICCR (International Conference of Cognitive &Recognition), DoS in Computer Science, University of Mysore. 2011, 9-11 of Dec 2011.

Service as Reviewer

Conferences

1. Serve as Elsevier reviewer since 2020.

2. Track Chair at Information Security track at "The first international conference of advanced computing and informatics" Morocco, 2020.

3. Track Chair at Data Science track at "The First International Conference of Intelligent Computing and Engineering ICOICE 2019" Dec.2019.

4. Program Committee Members at "International Conference of Applications and Techniques in Cyber Intelligence (ATCI2019) on Web intelligence and Intelligent Precision Mining".

5. International Technical Committee in Recent Trends in Data Science and Soft Computing: Proceedings of the 3rd International Conference of Reliable Information and Communication Technology (IRICT 2018)

6. 2nd International Conference of Reliable Information and Communication Technology 2017 (IRICT 2017). The conference will be held in UTM, Malaysia, on April 23-24, 2017.

7. UGC Sponsored Two day National Conference on Emerging Trends in Computer Science and Technology held at St. Philomena's College, University of Mysore, Mysore, on 17th & 18th February 20016