

## Academic Resume



### Muhammad Aslam

#### Associate Professor, Information Systems Department

I am currently working as Associate Professor at Department of Information Systems, King Abdulaziz University (KAU), Jeddah, Saudi Arabia (KAU, ranked 109 in QS ranking). I have more than 15 years of working experience in academia. I also have published more than 40 research papers in peer-reviewed conferences and journals. I have supervised (and currently supervising) several undergraduate and postgraduate students. I also have around 2 years' working experience in the industry.

#### Contact Information.

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#### Highest Degree.

2007, Ph.D. in Computer Science, Software Engineering, University of Leipzig, Germany.

#### Academic and Professional Experiences.

1. **2019 - Present**  
Associate Professor, Saudi Arabia, King Abdulaziz University.
2. **2011 - 2019**  
Assistant Professor, Saudi Arabia, King Abdul Aziz University, Jeddah.
3. **2010 - 2011**  
Senior Staff Researcher, Malaysia, Malaysian Institute of Microelectronics Systems (MIMOS), Kuala Lumpur.
4. **2008 - 2010**  
Assistant Professor, Pakistan, Faculty of Information Science and Technology, Department of Computer Science.
5. **2003 - 2007**  
Research Assistant, Germany, Business-oriented Information Systems Research Group, Institute of Computer Science.

#### Research Interests.

Semantic Web, Linked Open Data, Knowledge Engineering, Social Networks.

#### Teaching Interests.

Advance E-Systems Development, Knowledge Engineering and Knowledge Management, Research Methodes, Software Development, Programming with Java and C++, Internet Applications and Web Development.

### **Certifications and Trainings.**

1. Software Engineering and Modeling.
2. Semantic Web Technologies.

### **Social, Scientific and Professional Affiliation.**

1. -, Member, None.

### **Excellence Awards and Patents.**

1. 2002, Interior, Dr A. Q. Khan Research Laboratories Software Competition Award, Dr. A. Q. Khan Labs.
2. 2005, International, Partial Support Scholarship Award, Higher Education Commission (HEC) of Pakistan.
3. 2016, Interior, Best Researcher Award

## Publications.

1. Naif Radi Aljohani, Muhammad Ahtisham Aslam, Alaa O. Khadidos, Saeed-UI Hassan, "A Methodological Framework To Predict Future Market Needs For Sustainable Skills Management Using Ai And Big Data Technologies", *Applied Sciences*, vol: 12, pp. 6898, 2022.  
DOI: [10.3390/app12146898](https://doi.org/10.3390/app12146898)
2. Afnan Muhammadsalh Alsukhayri, Muhammad Ahtisham Aslam, Imtiaz Hussain Khan, Rabeeh Ayaz Abbasi, Amal Babour, "Toward Building A Linked Open Data Cloud To Predict And Regulate Social Relations In The Saudi Society", *Ieee Access*, vol: 10, pp. 50548-50561, 2022.  
DOI: [10.1109/ACCESS.2022.3174090](https://doi.org/10.1109/ACCESS.2022.3174090)
3. Naif Radi Aljohani, Ahtisham Aslam, Alaa O. Khadidos, Saeed-UI Hassan, "Bridging The Skill Gap Between The Acquired University Curriculum And The Requirements Of The Job Market: A Data-Driven Analysis Of Scientific Literature", *Journal Of Innovation & Knowledge*, vol: 7, pp. 100190, 2022.  
DOI: [10.1016/j.jik.2022.100190](https://doi.org/10.1016/j.jik.2022.100190)
4. Zubaida Jastania, Rabeeh Ayaz Abbasi, Muhammad Ahtisham Aslam, Tariq Jamil Saifullah Khanzada, Khawaja Moyeezullah Ghori, "Analyzing Public Discussions About #Saudiwomencandrive Using Network Science", *Ieee Access*, vol: 10, pp. 4739-4749, 2022.  
DOI: [10.1109/ACCESS.2021.3140073](https://doi.org/10.1109/ACCESS.2021.3140073)
5. Nada Abdullah Alrehaili, Muhammad Ahtisham Aslam, Dimah Hussein Alahmadi, Dina Abdullah Alrehaili, Muhammad Asif, Muhammad Sheraz Arshad Malik, Muhammad Ahmad, "Ontology-Based Smart System To Automate Higher Education Activities", *Complexity*, vol: 2021, pp. 1-20, 2021.  
DOI: [10.1155/2021/5588381](https://doi.org/10.1155/2021/5588381)
6. Muhammad Ahtisham Aslam, "Lopdf: A Framework For Extracting And Producing Open Data Of Scientific Documents For Smart Digital Libraries", *Peerj Computer Science*, vol: 7, pp. e445, 2021.  
DOI: [10.7717/peerj-cs.445](https://doi.org/10.7717/peerj-cs.445)
7. A. Almaleh, M. A. Aslam, K. Saeedi, "The Process Of Using Naive Bayes For Implanted And Multi-Class Text Classification Problems", *International Journal Of Computer Science And Network Security (Ijcsns)*, 2020.
8. Afnan MuhammadSalh AlSukhayri, Muhammad Ahtisham Aslam, Kawther Saeedi, Muhamad Sheraz Arshed Malik, "A Linked Open Data-Oriented Sustainable System For Transparency And Open Access To Government Data: A Case Study Of The Public??S Response To Women??S Driving In Saudi Arabia", *Sustainability*, vol: 12, pp. 8608, 2020.  
DOI: [10.3390/su12208608](https://doi.org/10.3390/su12208608)
9. Kawther Saeedi, Monirah Dakilallah Almalki, Dania Aljeaid, Anna Visvizi, Muhammad Ahtisham Aslam, "Design Pattern Elicitation Framework For Proof Of Integrity In Blockchain Applications", *Sustainability*, vol: 12, pp. 8404, 2020.  
DOI: [10.3390/su12208404](https://doi.org/10.3390/su12208404)
10. Zubaida Jastania, Mohammad Ahtisham, Rabeeh Ayaz, Kawther Saeedi, "Using Social Network Analysis To Understand Public Discussions: The Case Study Of #Saudiwomencandrive On Twitter", *International Journal Of Advanced Computer Science And Applications*, vol: 11, 2020.  
DOI: [10.14569/IJACSA.2020.0110230](https://doi.org/10.14569/IJACSA.2020.0110230)
11. Bashayer Alotaibi, Rabeeh Ayaz Abbasi, Muhammad Ahtisham Aslam, Kawther Saeedi, Dimah Alahmadi, "Startup Initiative Response Analysis (Sira) Framework For Analyzing Startup Initiatives On Twitter", *Ieee Access*, pp. 1-1, 2020.  
DOI: [10.1109/ACCESS.2020.2965181](https://doi.org/10.1109/ACCESS.2020.2965181)

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12. Naif Radi Aljohani, Rabeeh Ayaz Abbasi, Fahad Mohammed Bawakid, Farrukh Saleem, Zahid Ullah, Ali Daud, Muhammad Ahtisham Aslam, Jalal S. Alowibdi, Saeed-UI Hassan, "Web Observatory Insights: Past, Current, And Future", International Journal On Semantic Web And Information Systems, vol: 15, pp. 52-68, 2019.  
DOI: [10.4018/IJSWIS.2019100104](https://doi.org/10.4018/IJSWIS.2019100104)
13. Ali Daud, Tehmina Amjad, Muazzam Ahmed Siddiqui, Naif Radi Aljohani, Rabeeh Ayaz Abbasi, Muhammad Ahtisham Aslam, "Correlational Analysis Of Topic Specificity And Citations Count Of Publication Venues", Library Hi Tech, vol: 37, pp. 8-18, 2019.  
DOI: [10.1108/LHT-03-2018-0042](https://doi.org/10.1108/LHT-03-2018-0042)
14. Afnan M. AlSukhayri, Muhammad Ahtisham Aslam, Sachi Arafat, Naif Radi Aljohani, "Leveraging The Saudi Linked Open Government Data: A Framework And Potential Benefits", International Journal Of Modern Education And Computer Science, vol: 11, pp. 14-22, 2019.  
DOI: [10.5815/ijmecs.2019.07.02](https://doi.org/10.5815/ijmecs.2019.07.02)
15. Ahood Almaleh, Muhammad Ahtisham Aslam, Kawther Saeedi, Naif Radi Aljohani, "Align My Curriculum: A Framework To Bridge The Gap Between Acquired University Curriculum And Required Market Skills", Sustainability, vol: 11, pp. 2607, 2019.  
DOI: [10.3390/su11092607](https://doi.org/10.3390/su11092607)
16. Muhammad Ahtisham Aslam, "Using Publications Linked Open Data To Define Organizational Policies", International Journal Of Information Engineering And Electronic Business, vol: 10, pp. 8-14, 2018.  
DOI: [10.5815/ijieeb.2018.05.02](https://doi.org/10.5815/ijieeb.2018.05.02)
17. Naif Radi Aljohani, Ali Daud, Rabeeh Ayaz Abbasi, Jalal S. Alowibdi, Mohammad Basher, Muhammad Ahtisham Aslam, "An Integrated Framework For Course Adapted Student Learning Analytics Dashboard", Computers In Human Behavior, 2018.  
DOI: [10.1016/j.chb.2018.03.035](https://doi.org/10.1016/j.chb.2018.03.035)
18. Hossam Faheem, Birgitta K?nig-Ries, Muhammad Aslam, Naif Aljohani, Iyad Katib, "Ontology Design For Solving Computationally-Intensive Problems On Heterogeneous Architectures", Sustainability, vol: 10, pp. 441, 2018.  
DOI: [10.3390/su10020441](https://doi.org/10.3390/su10020441)
19. Muhammad Ahtisham Aslam, Naif Radi Aljohani, Rabeeh Ayaz Abbasi, Miltiadis D. Lytras, Muhammad Ashad Kabir, "A Generic Framework For Adding Semantics To Digital Libraries", vol: 10034, pp. 277-281, 2017.  
DOI: [10.1007/978-3-319-55961-2\\_28](https://doi.org/10.1007/978-3-319-55961-2_28)
20. Muhammad Ali Masood, Rabeeh Ayaz Abbasi, Onaiza Maqbool, Mubashar Mushtaq, Naif R Aljohani, Ali Daud, Muhammad Ahtisham Aslam, Jalal S Alowibdi, Miguel-Angel Sicilia, Miguel-Angel Sicilia, "Mfs-Lda: A Multi-Feature Space Tag Recommendation Model For Cold Start Problem", Program, pp. 00-00, 2017.  
DOI: [10.1108/PROG-01-2017-0002](https://doi.org/10.1108/PROG-01-2017-0002)
21. Muhammad Ahtisham Aslam, Naif Radi Aljohani, "Spedia:", International Journal On Semantic Web And Information Systems, vol: 13, pp. 128-146, 2017.  
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22. A. Abdullah , A. Bakhawain , A. Basuhail , Muhammad Ahtisham Aslam, "Using Data Mining For Predicting Cultivable Uncultivated Regions In The Middle East", The International Arab Journal Of Information Technology, 2016, Vol. 14, Issue 6 , Issn: 2309-4524 Pp 1-12., 2016.
23. Muhammad Ashad Kabir, Jun Han, Alan Colman, Naif R. Aljohani, Mohammed Basher, Muhammad Ahtisham Aslam, "Ontological Reasoning About Situations From??Calendar Events", vol: 10033, pp. 810-826, 2016.  
DOI: [10.1007/978-3-319-48472-3\\_51](https://doi.org/10.1007/978-3-319-48472-3_51)

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24. Muhammad Ahtisham Aslam, Naif Radi Aljohani, "Spedia: A Semantics Based Repository Of Scientific Publications Data", vol: 9658, pp. 479-490, 2016.  
DOI: [10.1007/978-3-319-39937-9\\_37](https://doi.org/10.1007/978-3-319-39937-9_37)
25. Fahad Alahmari, Jalel Akaichi, Naif Radi Aljohani, Muhammad Ahtisham Aslam, "Designing Interactive User Interface Supporting Entity Search Over Dbpedia", 2016 4th Saudi International Conference On Information Technology (Big Data Analysis) (Kacstit), pp. 1-7, 2016.  
DOI: [10.1109/KACSTIT.2016.7756070](https://doi.org/10.1109/KACSTIT.2016.7756070)
26. Ahmad Mohammed Almorabea, Muhammad Ahtisham Aslam, "Symmetric Key Encryption Using Aes-Gcm And External Key Derivation For Smart Phones", International Journal Of Computer Networks And Communications Security, 2015.
27. Ahsan Abdullah, Sohyb Sami Abo Alshamat, Ahmad Bakhshwain, Ahtisham Aslam, "Automatic Text Removal And Replacement In Scanned Meteorological Thematic Maps", Journal Of Computer Science, vol: 11, pp. 772-783, 2015.  
DOI: [10.3844/jcssp.2015.772.783](https://doi.org/10.3844/jcssp.2015.772.783)
28. Muhammad Ahtisham Aslam, Ahsan Abdullah, "A Methodology And A Tool To Prepare Agro-Meteorological Maps As A Source Of Big Data", 2015 Ieee International Conference On Multimedia Big Data (Bigmm), pp. 208-211, 2015.  
DOI: [10.1109/BigMM.2015.42](https://doi.org/10.1109/BigMM.2015.42)
29. Ahsan Abdullah, Ahmed Bakhshwain, Abdullah Basuhail, Ahtisham Aslam, "An Integrated Framework For Predicting Long-Term Productivity Of Pastures In The Kingdom Of Saudi Arabia", Arabian Journal For Science And Engineering, vol: 40, pp. 3567-3582, 2015.  
DOI: [10.1007/s13369-015-1841-4](https://doi.org/10.1007/s13369-015-1841-4)
30. W. Ahmed, Muhammad Aslam, A Lopez-Lorca, J. Shen, G. Beydoun, D. Richards, "Using Ontologies To Synchronize Change In Relational Database Systems", , 2012.
31. Waqas Ahmed, Muhammad Ahtisham Aslam, Jun Shen, Jianming Yong, "A Light Weight Approach For Ontology Generation And Change Synchronization Between Ontologies And Source Relational Databases", 2011 15th International Conference On Computer Supported Cooperative Work In Design (Cscwd), pp. 208-214, 2011.  
DOI: [10.1109/CSCWD.2011.5960076](https://doi.org/10.1109/CSCWD.2011.5960076)
32. W. Ahmed, Muhammad Aslam, J. Shen, J. Yong, "A Light Weight Approach For Ontology Generation And Change Synchronization Between Ontologies And Source Relational Databases", Proceedings Of The 15th International Conference On Computer Supported Cooperative Work In Design (Cscwd 11), Lausanne, Switzerlan, Isbn: 9781457703874, pp. 208-214, 2011.
33. Muhammad Ahtisham Aslam , Dickson Lukose, "Proceedings Of The 2nd Semantic Technology And Knowledge Engineering Conference (Stake2010)", 2010.
34. M. Sami Ullah , Muhammad. Ahtisham Aslam, "A Semantic Caching Approach For Semantic Web Service Discovery", Proceedings Of The 8th Comsats Workshop On Research In Computing (Cwrc 08), November. 3, 2008, Wah Cant, Pakistan., 2008.
35. Waqas Ahmad , Muhammad. Ahtisham Aslam, "An Enhanced Technique For Incorporating Schema Changes Into Ontology (Best Session Paper Award", Proceedings Of The 8th Comsats Workshop On Research In Computing (Cwrc 08), November. 3, 2008, Wah Cant, Pakistan., 2008.
36. Muhammad Ahtisham Aslam, "Towards Integration Of Business Processes And Semantic Web Services", 2008.
37. Muhammad Aslam, "Towards Semantic Business Processes: Concepts, Methodology And Implementation", pp. 244-274, 2008.

## Publications.

38. M. Herrman , Muhammad Ahtisham Aslam , O. Dalferth, "Applying Semantics (WsdI, WsdI-S, Owl) In Service Oriented Architectures (Soa)", Proceedeings Of 10th Intl. Prot??G?? Conference, July 15??18, 2007, Budapest, Hungary, 2007.
39. Muhammad Ahtisham Aslam, Jun Shen, Soren Auer, Michael Herrmann, "An Integration Life Cycle For Semantic Web Services Composition", 2007 11th International Conference On Computer Supported Cooperative Work In Design, pp. 490-495, 2007.  
DOI: [10.1109/CSCWD.2007.4281485](https://doi.org/10.1109/CSCWD.2007.4281485)
40. Muhammad Ahtisham Aslam, S??ren Auer, Jun Shen, Michael Herrmann, "Expressing Business Process Models As Owl-S Ontologies", vol: 4103, pp. 400-415, 2006.  
DOI: [10.1007/11837862\\_38](https://doi.org/10.1007/11837862_38)
41. Muhammad Ahtisham, Aslam , Michael Herrmann , S??ren Auer, Golden, R., "Real-Life Soa Experiences And An Approach Towards Semantic Soa", Proceedings Of 4th International Workshop On Soa And Web Services In Conjunction With Acm Sigplan International Conference On Object-Oriented Programming, Systems, Languages, And Applications, October 22??26, Portland, Oregon, Usa, Isbn 82??997428??0-3, Pp. 72??81., 2006.
42. Muhammad Ahtisham. Aslam , Soren Auer , Jun Shen , Michael. Herrmann, "Web Services Composition To Facilitate Grid And Distributed Computing: Current Approaches And Future Framework", Proceedings Of 4th International Workshop On Frontiers Of Information Technology, 2006.
43. Muhammad Aslam, "From Bpel4ws Process Model To Full Owl-S Ontology", pp. 61-62, 2006.
44. Muhammad Aslam, "Mercedes Car Group (Mcg) Enterprise Architektur – Ein Ansatz Zur Semantischen Modellierung Der Services In Einer Soa", pp. 145-151, 2006.
45. Muhammad Aslam, S. Auer, J. Shen, K. F?Hnrich, "Bridging The Semantic Gap Between Business Processes And Semantic Web Services", , vol: 8 No.4, pp. 433-443, 2006.