

# Dr. Abdul Wahab Muzaffar

## Assistant Professor

Department of Information Technology  
College of Computing and Informatics,  
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## ACADEMIC CREDENTIALS

Publications	32 (Journals - 13, Conference – 19)
Total Citations	228
Total Impact Factor	17.675
h-index as of google scholar	8
i10 index as of google scholar	6
Research Profile	Google Scholar Profile: <a href="https://scholar.google.com/citations?user=8-WyopJAAAAJ&amp;hl=en">https://scholar.google.com/citations?user=8-WyopJAAAAJ&amp;hl=en</a> Research Gate Profile: <a href="https://www.researchgate.net/profile/Abdul_Wahab_Qureshi">https://www.researchgate.net/profile/Abdul_Wahab_Qureshi</a>

## EDUCATION

DEGREE	CGPA	AREA OF STUDY	UNIVERSITY	YEARS
PhD	3.66	Software Engineering	National University of Sciences and Technology, Pakistan	2011-2017
MS	3.58	Computing	Shaheed Zulfiqar Ali Bhutto Institute of Science and Technology, Pakistan	2008-2010
BS	3.60	Computer Sciences	University of Azad Jammu and Kashmir, Pakistan	2001-2005

## RESEARCH PROJECTS

### COMPLETED

1	Project Title:	Towards an Intelligent E-Learning Framework for the Comprehensive and Realistic Execution of Online Students Exams in Saudi Universities
	Duration (Months):	8 Months (June 2020 – January 2020)
	Sponsor:	Saudi Electronic University, Saudi Arabia
	Role:	Principal Investigator (PI)
	Research output: (published in ISI Q1 Journal)	A Systematic Review of Online Exams Solutions in E-Learning: Techniques, Tools, and Global Adoption

### UNDER PROCESS

1	<b>Project Title:</b>	<b>An Open source Online Examination System to Meet the Integrity Demands of e-learning in Saudi Arabia</b>
	<b>Duration (Months):</b>	12 Months (April 2021 – March 2022)
	<b>Sponsor:</b>	Saudi Electronic University, Saudi Arabia
	<b>Role:</b>	Principal Investigator (PI)
	<b>Research output:</b>	

2	<b>Project Title:</b>	<b>Smart City Surveillance: A Game Changing Mission to Counter Terrorism</b>
	<b>Duration (Months):</b>	12 Months (April 2021 – March 2022)
	<b>Sponsor:</b>	Saudi Electronic University, Saudi Arabia
	<b>Role:</b>	Co-PI
	<b>Research output:</b>	

3	<b>Project Title:</b>	<b>Smart Community Engagement Blueprint for Riyadh</b>
	<b>Duration (Months):</b>	7 Months (April 2021 – October 2021)
	<b>Sponsor:</b>	Saudi Electronic University, Saudi Arabia
	<b>Role:</b>	Co-PI
	<b>Research output:</b>	

#### TEACHING EXPERIENCE

DESIGNATION	INSTITUTE	DURATION
ASSISTANT PROFESSOR	Department of Information Technology, Saudi Electronic University, AlQassim KSA	August 2018 – To Date
ASSISTANT PROFESSOR	College of Electrical and Mechanical Engineering, National University of Sciences and Technology, Islamabad, Pakistan	February 2018 – August 2018

#### COURSES TAUGHT

COURSE NAME	SEMESTER
Database Management Systems	(Spring 2019, Spring 2020, Fall 2020, Spring 2021)
Computer Programming - I	(Spring 2019, Spring 2020, Fall 2020, Spring 2021)
Introduction to IT and IS	(Fall 2018)
Computer Organization	(Fall 2018, Spring 2019, Spring 2020, Fall 2020)
System Integration	(Fall 2018)
Multimedia Systems Development	(Fall 2018)
Software Engineering	(Spring 2018, Fall 2019)

Database Engineering	(Spring 2018)
IT Security and Policies	(Spring 2021)

## PROFESSIONAL EXPERIENCE

### DESIGNATION: MANAGER SOFTWARE

Duration: September 2014 – January 2017

Organization: College of Electrical and Mechanical Engineering, National University of Sciences and Technology

#### Manager Software Responsibilities:

- **Management of Software Development and Maintenance Teams**
  - Management of People Soft Campus Management Solution (CMS)
  - Task Assignment to Software Development and Software Support Teams
  - Monitoring Progress of the team Members and Undergoing Projects
  - Coaching and Mentoring Team Members
  - Attend Meetings and Training Workshops
  - Communicate with Other Departments

### DESIGNATION: ORACLE DATABASE ADMINISTRATOR (DBA)

Duration: August 2010 – August 2014

Organization: College of Electrical and Mechanical Engineering, National University of Sciences and Technology

#### Database Administrator Responsibilities:

- **Administering the Database:** User administration, Backup, Recovery, Performance Tuning, Hardware and Software maintenance
- **Educating Users:** Training of users on newly deployed systems
- **Establishing Database Procedures and Standards**
- **Assisting in Database Design**

## RESEARCH PUBLICATIONS

### Journal Publications

1. Mehreen Khan, Farooque Azam, Muhammad Rashid, Fatima Samea, Muhammad Waseem Anwar, **Abdul Wahab Muzaffar** and Wasi Haider Butt, "A Retargetable Model-Driven Framework for the Development of Mobile User Interfaces", **Journal of Circuits, Systems and Computers**, <https://doi.org/10.1142/S0218126622500189>. **ISI Impact Factor 1.333**
2. A. Rahim, Y. Rasheed, F. Azam, M. W. Anwar, M. A. Rahim and **A. W. Muzaffar**, "An Integrated Machine Learning Framework for Effective Prediction of Cardiovascular Diseases," in **IEEE Access**, vol. 9, pp. 106575-106588, 2021, Digital Object Identifier 10.1109/ACCESS.2021.3098688. **ISI Impact Factor 3.367**
3. **Abdul Wahab Muzaffar** et.al, "A Systematic Review of Online Exams Solutions in E-learning: Techniques, Tools and Global Adoption" in **IEEE Access**, vol. 9, pp. 32689-32712, 2021, doi: 10.1109/ACCESS.2021.3060192. **ISI Impact Factor 3.745**
4. Hanny Tufail, Farooque Azam, Muhammad Waseem Anwar, Muhammad Nouman Zafar, **Abdul Wahab Muzaffar** and Wasi Haider Butt, "A Model-Driven Alarms Framework (MAF) With Mobile Clients Support for Wide-Ranging Industrial Control Systems," in **IEEE Access**, vol. 8, pp. 174279-174304, 2020, doi: 10.1109/ACCESS.2020.3025933. **ISI Impact Factor 3.745**
5. Samea F, Azam F, Rashid M, Anwar MW, Haider Butt W, **Abdul Wahab Muzaffar** (2020) A model-driven framework for data-driven applications in serverless cloud computing. **PLOS ONE** 15(8): e0237317. <https://doi.org/10.1371/journal.pone.0237317>. **ISI Impact Factor 2.740**
6. Ayesha Tariq, Farooque Azam, Muhammad Waseem Anwar, Tayyba Zahoor and **Abdul Wahab Muzaffar**, "Recent Trends in Underwater Wireless Sensor Networks (UWSNs) – A Systematic Literature Review", **Programming and Computer Software Journal**, 2020 **ISI Impact Factor 0.75**

7. **Abdul Wahab Muzaffar**, Farooque Azam, Usman Qamar," A Relation Extraction Framework for Biomedical Text Using Hybrid Feature Set", **Computational and Mathematical Methods in Medicine** Volume 2015 (2015), Article ID 910423, 12 pages <http://dx.doi.org/10.1155/2015/910423>. **ISI Impact Factor 0.766**
8. Hina Anwar, Usman Qamar, and **Abdul Wahab Muzaffar** Qureshi, "Global Optimization Ensemble Model for Classification Methods," **The Scientific World Journal**, vol. 2014, Article ID 313164, 9 pages, 2014. doi:10.1155/2014/313164. **ISI Impact Factor 1.219**
9. Nouman, Farooque Azam, **Abdul Wahab Muzaffar**,"Ranking in Web Services Discovery with User Preferences", *International Journal of Computer Science and Information Security*, Pittsburgh, PA, USA (ISSN 1947 5500).
10. Sidra Ashraf Khan, **Abdul Wahab Muzaffar**, Dr. Farooque Azam," A Review of Data Mining Techniques for Privacy in Mobility Data", *International Journal of Soft Computing and Software Engineering [JSCSE]*, Vol. 3, No. 1, pp. 12-28, 2013. Available at: <https://arxiv.org/submit/925596/view>
11. Iqra Basharat, Farooque Azam, **Abdul Wahab Muzaffar**, "Database Security and Encryption: A Survey Study", *International Journal of Computer Applications* June 2012. Published by Foundation of Computer Science, New York, USA, No.12 Volume 47, PP 28-34, June 2012.
12. **Abdul Wahab Muzaffar**, Farooque Azam, Hina Anwar and Ali Saeed Khan, "Usability Aspects in Pervasive Computing: Needs and Challenges" *International Journal of Computer Applications* October 2011. Published by Foundation of Computer Science, New York, USA, No.10 Volume 32, PP18-24, October 2011.
13. Madiha Waris, Farooque Azam, **Abdul Wahab Muzaffar**," A Survey of Issues in Multimedia Databases", *International Journal of Computer Applications* May 2012. Published by Foundation of Computer Science, New York, USA, No.07 Volume 46, PP 01-09, May 2011.

#### Conference Publications

1. Sardar Zafar, Hina Gull, **Abdul Wahab**, A new friends sort algorithm 2009 2nd **IEEE** International Conference on Computer Science and Information Technology **IEEE** 978-1-4244-4519-6, PP326-329, 08-August 2009.
2. Muhammad Usman, **Abdul Wahab**, Abdul Rauf," Enterprise Content Management (ECM): Needs, challenges and recommendations", 2009 2nd **IEEE** International Conference on Computer Science and Information Technology, 978-1-4244-4519-6 pp 283-289, 08-August 2009.
3. **Abdul Wahab Muzaffar**, Naveed Riaz, Juwaria Shafiq and Wasi Haider Butt, "Relative Split and Concatenate Sort (RSCS-V1), 2011 International Conference on Information and Computer Applications (ICICA 2011),18-20 Mar 2011, Dubai, UAE.
4. **Abdul Wahab Muzaffar**, Hina Anwar, Farooque Azam, "Relative Split and Concatenate Sort V2(RSCS-V2), 2012 4TH International Conference on Computer Engineering and Technology (ICCET 2012), 27-28 May 2012, Phuket, Thailand.
5. Bureera Sabir, **Abdul Wahab Muzaffar** and Dr Usman Qamar, "Ontology Development and Evaluation for Urinal Tract Infection", 2014 **IEEE** International Symposium Series on Computational Intelligence (SSCI 2014), December 9-12, 2014, Orlando Florida, USA.
6. Muhammad Latif, Dr Usman Qamar and **Abdul Wahab Muzaffar**, "Content-Specific Unigrams and Syntactical Phrases to Enhance SentiWordNet based Sentiment Classification", 7th International Conference on Machine Learning and Computing (ICMLC 2015), March 19-20, 2015 / Florence, Italy.
7. Muhammad Ashraf Khan Niazi, **Abdul Wahab Muzaffar**, Muhammad Latif, Usman Qamar, "Signature Automation of UMLS Concepts: An Un-Supervised Named Entity Recognition Framework for Classification of DNA and RNA in Biological Text", **IEEE**, Science and Information Conference (SAI), 2015.
8. **Abdul Wahab Muzaffar**, Farooque Azam, Usman Qamar, Muhammad Latif, Shumyla Rasheed Mir," A Hybrid Approach to Extract and Classify Relation from Biomedical Text", The 2015 International Conference on Information and Knowledge Engineering, Las Vegas USA.

9. Syed Hasnain Ali, Madiha Guftar, **Abdul Wahab Muzaffar**, Usman Qamar, "A Feature Reduction Framework based on Rough Set for Bio Medical Data Sets", **IEEE**, SAI Intelligent Systems Conference (IntelliSys), 2015.
10. Samiullah Khan, Usman Qamar, **Abdul Wahab Muzaffar**, "A Framework for Evaluation of OWL Biomedical Ontologies based on Properties Coverage", 13th **IEEE** International Conference on Frontiers of Information Technology (FIT'15), At Islamabad, Pakistan.
11. **Abdul Wahab Muzaffar**, Shumyla Rasheed Mir, Muhammad Latif, Wasi Haider Butt and Farooque Azam, "Software Architecture of a Mobile Robot", **IEEE** 2015 International Conference on Computational Science and Computational Intelligence (CSCI), December 7-9, 2015, Las Vegas, USA.
12. A.B.N Alvi, Usman Qamar, **Abdul Wahab Muzaffar** and Wasi Haider, "A Novel Hybrid Classifiers based Model for mining in Neuro-imaging", **ACM** Conference on Internet of things and Cloud Computing (ICC 2016), At Cambridge, United Kingdom.
13. Andleeb Shehnaz, Usman Qamar, **Abdul Wahab Muzaffar**, "Building a core biomedical knowledge base", **IEEE** BigDataService 2016, At Oxford, UK.
14. Syed Hasnain Ali and **Abdul Wahab Muzaffar**, "Majority Based Ensemble Framework for Feature Selection Using Rough Set", **IEEE** 2016 International Conference on Computational Science and Computational Intelligence (CSCI), December 15-17, 2016, Las Vegas, USA.
15. Aamina Iqtadar, **Abdul Wahab Muzaffar**, Usman Qamar, Saad Rehman," A Biomedical Ontology on Genetic Disease", **ACM** Conference on Internet of things and Cloud Computing (ICC 2017), At Cambridge, United Kingdom.
16. **Abdul Wahab Muzaffar**, Shumyla Rashheed Mir, Muhammad Waseem Anwar and Adeela Ashraf," Application of Model Driven Engineering in Cloud Computing – A Systematic Literature Review", **ACM** Conference on Internet of things and Cloud Computing (ICC 2017), At Cambridge, United Kingdom.
17. Kinza Zahra, Farooque Azam, Fauqia Ilyas and **Abdul Wahab Muzaffar**, "Model-Driven Approaches for Software Product Lines: A Systematic Literature Review", Circulation in Computer Science, Published in ICECIT 2017, February 2018.
18. Bureera Sabir, Nabila Perveen, **Abdul Wahab Muzaffar** and Shumyla Rasheed Mir, "Mobile Commerce Applications, their Data Storage and Retrieval in Wireless Network", Circulation in Computer Science, Published in ICECIT 2017, February 2018.
19. Bureera Sabir, Nabila Perveen, Usman Qamar and **Abdul Wahab Muzaffar**, "Impact Analysis on Evolution Patterns of Service Oriented Systems", Circulation in Computer Science, Published in ICECIT 2017, February 2018.

## THESIS SUPERVISED

STUDENT NAME	UNIVERSITY	DETAIL
<b>Aamna Iqtidar (MS-Software Engineering) 2016</b>	NUST Pakistan	<b>Supervisor:</b> Dr Usman Qamar <b>Co-Supervisor:</b> Dr Abdul Wahab Muzaffar <b>Thesis title:</b> Building A Biomedical Ontology on Genetic Disease <b>Publications:</b> 1 (Conference paper)
<b>Muhammad Ashraf Khan Niazi (MS-Software Engineering) 2015</b>	NUST Pakistan	<b>Supervisor:</b> Dr Usman Qamar <b>Co-Supervisor:</b> Dr Abdul Wahab Muzaffar <b>Thesis title:</b> Signature Automation of UMLS Concepts: An Un-Supervised Named Entity Recognition Framework for Classification of DNA and RNA in Biological Text <b>Publications:</b> 1 (Conference paper)
<b>Muhammad Latif (MS-Software Engineering) 2016</b>	NUST Pakistan	<b>Supervisor:</b> Dr Usman Qamar <b>Co-Supervisor:</b> Dr Abdul Wahab Muzaffar <b>Thesis title:</b> Content-Specific Unigrams and Syntactic Phrases to Enhance SentiWordNet based Sentiment Classification <b>Publications:</b> 1 (Conference paper)
<b>Bureera Sabir (MS-Software Engineering) 2014</b>	NUST Pakistan	<b>Supervisor:</b> Dr Usman Qamar <b>Co-Supervisor:</b> Dr Abdul Wahab Muzaffar <b>Thesis title:</b> Ontology Development and Evaluation for Urinal Tract Infection <b>Publications:</b> 1 (Conference paper)

## ACADEMIC SUPPORT ACTIVITIES

ACTIVITY	DURATION
Course Coordinator (IT Security and Policies) Department of Information Technology, Saudi Electronic University	Spring 2021
Course Coordinator (Database Management Systems) Department of Information Technology, Saudi Electronic University	Spring 2020, Fall 2020
Course Coordinator (Software Engineering) Department of Information Technology, Saudi Electronic University	Fall 2019
Member of Curriculum Design Committee Department of Computer & Software Engineering, College of E&ME, National University of Science and Technology, Pakistan	Feb 2017 - August 2018
Head Web Portal Management Committee College of E&ME, National University of Science and Technology, Pakistan	Sep 2014 - August 2018
Coordinator Campus Management Solution College of E&ME, National University of Science and Technology, Pakistan	Sep 2014 - August 2018

## HONORS & AWARDS

Title	Dates
<b>University Full Fee Waiver Ph.D. in Software Engineering</b> Awarded by: National University of Sciences and Technology	Feb 2011 – Feb 2017
<b>Silver Medal – 2<sup>nd</sup> Position Holder</b> Awarded by: University of Azad Jammu and Kashmir	2006

## INTERNATIONAL CERTIFICATIONS

Title	Certification	Module	Year
IBM AI Analyst	IBM AI Analyst	IBM AI Analyst	2020
FCP	IBM FileNet Certified Professional	FCP Business Process Manager-Administrator 4.0	2009
FCP	IBM FileNet Certified Professional	FCP Business Process Manager-Developer 4.0	2009
FCP	IBM FileNet Certified Professional	FCP Content Manager-Administrator 4.0	2009
FCP	IBM FileNet Certified Professional	FCP Content Manager-Developer 4.0	2009
FCP	IBM FileNet Certified Professional	FCP Email Manager-Administrator 4.0	2009
FCP	IBM FileNet Certified Professional	FCP Email Manager-Developer 4.0	2009
FCP	IBM FileNet Certified Professional	FCP Forms Manager-Administrator 4.0	2009
FCP	IBM FileNet Certified Professional	FCP Forms Manager-Developer 4.0	2009
FCP	IBM FileNet Certified Professional	FCP Records Manager-Administrator 4.0	2009
FCP	IBM FileNet Certified Professional	FCP Records Manager-Developer 4.0	2009
FCP	IBM FileNet Certified Professional	FCP Solution Architect 4.0	2009

## CONFERENCES ATTENDED

- Research Paper Presentation in 2015 International Conference on Computational Science and Computational Intelligence (CSCI) on 7-9 Dec 2015 in Las Vegas USA.
- Research Paper Presentation in 2011 International Conference on Information and Computer Applications (ICICA 2011) on 18-20 Mar 2011 in Dubai UAE.
- Research Paper Presentation in 4TH International Conference on Computer Engineering and Technology (IC CET 2012) on 27-28 May 2012 in Phuket Thailand.
- Member of Organizing Committee of International Conference on Advanced Modelling and Simulation (ICAMS-2011) held at NUST College of Electrical & Mechanical Engineering (E&ME) on November 28th-30th, 2011.
- Attended International Conference on Robotics and Artificial Intelligence at NUST, College of E&ME, Rawalpindi, Pakistan on October 22nd and 23rd 2012.

## NOTABLE AREAS OF EXPERTISE

- **Software Team Lead:** Coordinate and delegate the responsibilities of IT teams
- **IBM FileNet Certified Professional:** File Net P8 Content development and Management Experience
- **Oracle 11g with Linux:** Management and Administration of Customized ERP Exam System of University.
- **Microsoft SharePoint Portal:** Part of University Portal team for management and administration of content.
- **PeopleSoft Campus Management Solution:** Part of University team for the Implementation of the project.

## REFERENCES

To be furnished on demand