

Resume

Dr Siffat Ullah Khan

Associate Professor (BPS-20)

Department of Computer Science & IT, University of Malakand, Pakistan

Gold Medal (Dr.M.N.Azam Prize in Computer (Software) by Pakistan Academy of Sciences in 2015

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Profile at University of Malakand: <http://csit.uom.edu.pk/serg.html>

HEC Approved PhD Supervisor: <http://sc.hec.gov.pk/aphds/submit.asp?supid=4292>

LinkedIn Profile <https://www.linkedin.com/in/siffatullahkhan/>

Facebook: <https://www.facebook.com/siffatullah.khan.7?ref=brem>

Gender: Male, Father's Name: Habib Ullah Khan

Domicile: Lakki Marwat

Nationality: Pakistani

EDUCATION

- Distinction: Gold Medal (DR.M.N.Azam Prize in Computer (Software) by Pakistan Academy of Sciences, 2015
- PhD: Computer Science, Keele University, UK, 2011 (Thesis defence held on 15-Dec-2010, PhD degree awarded on 22-Jun-2011) **Funded by HEC (Pakistan) through UOM FDP Scholarship Scheme**
- MSc. Computer Science, University of Peshawar, Pakistan (2000), Marks obtained: 70.92% , 1st Division
- BSc. Computer Science, Gomal University, Pakistan (1998) , Marks obtained: 73.45%, 1st Division
- FSc. Pre-Engineering Group, University Wensam College, D.I.Khan (1996) , Marks obtained: 68.45%, 1st Division
- SSC. Science Group, Govt. High School Kheru Khel Pacca, Lakki Marwat (1994) , Marks obtained: 71.88%, 1st Division

PROFESSIONAL TRAINING

- Governance and Leadership (UOM, Pakistan)
- Contributing Assertively to Meetings (Keele University, UK)
- Time Management (Keele University, UK)
- Assertive Communication (Keele University, UK)
- Quantitative Data Analysis using SPSS (Keele University, UK)
- Qualitative Data Analysis using NVivo (Keele University, UK)
- Scientific Writing (Keele University, UK)
- Systematic Literature Review (Keele University, UK)
- Managing Research Relationship (Keele University, UK)
- A career as an Academic (Keele University, UK)
- Intellectual Property for Research (Keele University, UK)
- Writing research proposals for funding (ICT, Pakistan)
- Teaching International Students (Keele University, UK)
- Presentation Skills (Keele University, UK)
- Core Research Training Module (Keele University, UK)

CAREER HISTORY

1. **Professor** of Computer Science (Recently received a confirmed offer letter as Professor of Computer Science, **University of Science and Technology, Bannu, vide letter of the office of the Registrar USTB, letter no: USTB/Reg/-1012, Dated: 04-Oct-2021**).
2. Department of Computer Science & IT, University of Malakand, PAKISTAN (w.e.f 12-Feb-2018 to date),
Position: **Associate Professor (BPS-20)**
3. Department of Computer Science & IT, University of Malakand, PAKISTAN (w.e.f 01-July-2007 to 11-Feb-2018),
Position: **Assistant Professor (BPS-19)**
4. Department of Computer Science & IT, University of Malakand, PAKISTAN (w.e.f 01-December-2001 to 30-June-2007)
Position: **Lecturer**
5. Research Experience/Study leave for PhD studies at School of Computing, Keele university, UK (w.e.f 14th January, 2008 to 29th December, 2010) funded by HEC though UOM FDP scholarship scheme. As per HEC notification, the PhD duration upto 4 years is considered as research experience for faculty appointments.
Position: **PhD research scholar** (on full time basis). I have developed software outsourcing vendors' readiness model (SOVRM) during my PhD.

EXPERIENCE SUMMARY:

Total Teaching/Research experience at university level = **20 years**

Teaching

- Teaching at Postgraduate levels (MS/PhD), M.SC Computer and undergraduate (BS) level, at the Department of Computer Science & IT and Department of Software Engineering, University of Malakand: The various courses I taught include: Software Engineering, Empirical Software Engineering, Advanced Topics in Software Engineering, Software Engineering Aspects of Green Computing, Formal methods in Software Engineering, Software Project Management, Professional Ethics, Software Security, Quantitative data analysis, Qualitative data analysis, Research methods, Systematic Literature Review, Database Management Systems (Oracle), Data Structure, Programming Languages
- Curriculum development for BS-Software Engineering, DIT, PGDIT, MS and PhD (Computer/Software Engineering) courses

Research

- Research in the areas of Empirical Software Engineering, Global Software Development/GSD, Cloud Computing, Green Computing/Green IT, Agile software development, software outsourcing, Software quality metrics in GSD, Requirements engineering, Knowledge sharing management, Web usability, Embedded real-time systems, and Systematic literature review (SLR)
- Supervision of research (Honours, MPhil and PhD)
- Supervised 04 PhD and 10 M.Phil students in the area of Global Software Engineering, Cloud Computing and Software outsourcing, at the Department of Computer Science & IT, University of Malakand
- Currently enrolled 05 PhD students and 07 M.Phil students, under my supervision, at the Department of Computer Science & IT, University of Malakand.
- Research collaboration with academics and software industry
- Designing of research instrument
- Conducting of research highly required by software industry
- I have examined, as external examiner, various MPhil/PhD theses in Computer Science at University of Peshawar, Gomal University, FAST-National University Islamabad and Riphah International University Islamabad.
- Co-supervised three MS/MPhil students at KUST, NUST and Iqra University Islamabad.
- I have supervised many research projects and information systems development projects at University of Malakand.

Management/Administrative Contributions/Experience/Curriculum Development

Apart from teaching/research I have undertaken the following management responsibilities at University of Malakand, Pakistan:

1. **Research Team Leader:** I am leading Software Engineering Research Group (SERG_UOM) at University of Malakand since January, 2011. Further details are available at the following link: <http://csit.uom.edu.pk/serg.html>
2. **Chairman**, Department of Computer Science and Information Technology, w.e.f 20-Feb-2018 to 15-May-2018.
3. **Head/Incharge**, Department of Software Engineering, University of Malakand for 3 years

- (25-May- 2011 to 17-April-2014).
4. **Head/Incharge**, Department of Computer Science & IT (30-Aug-2007 to 07-Jan-2008).
 5. **Warden**, University Staff Hostel, w.e.f 25-Apr-2002 to 30-Sep-2003 and 05-Sep-2012 to 20-Mar-2014.
 6. **Convener/Head**, Graduate Studies Committee (GSC), for evaluation of research proposals, Department of Computer Science & IT, since 27-Feb-2018 to 15-May-2018.
 7. **Convener/Head of the Board of Studies**, Department of Software Engineering, University of Malakand, from January, 2012 to 17-Apr-2014.
 8. **Coordinator/Convener**, M.Phil/PhD program, Deptt; of CS &IT, at University of Malakand, from 14- Mar-2011 to December 2013.
 9. **Member of Advance Studies and Research Board (ASRB)** at the University, for evaluation of research proposals, for 2 years, since January, 2011 to Jan, 2013)
 10. Member of Graduate Studies Committee (GSC), for evaluation of research proposals, Department of Computer Science & IT, since 29-Oct-2018 till date, vide letter of the Deputy Registrar Admissions, Ref.No: UOM/Admin/2018/697, Dated: 29-Oct-2018.
 11. Member of the Departmental Tenure Review Committee (DTRC), Department of Computer Science and IT, for evaluation of Faculty on Tenure Track Systems, notified by the Assistant Registrar Academics, vide letter Ref.Endst.No: 15023/1-13, Dated: 04-Dec-2018.
 12. Convener of the Self-Assessment Report writing for M.Phil/PhD program, notified by the Chairman, CS & IT, Ref.No: UOM/CSIT/2018/233, Dated: 27-Nov-2018.
 13. Member of the M.Phil/PhD Admission Committee, notified by the Chairman, CS & IT, Ref.No: UOM/CSIT/2018/235, Dated: 28-Nov-2018.
 14. Member of Examination Discipline Committee (Appeal Committee), University of Malakand, during the year 2011-2012
 15. Member of the Board of Studies, Department of Computer Science & IT, University of Malakand, from February, 2012 to February 2014.
 16. Member, Board of Faculty for IT, University of Malakand, 2013-2015.
 17. Member, Graduate Studies Committee, for evaluation of research proposals, Department of Computer Science & IT, 2013--2015
 18. Member, Scholarships and Fee concession committee, University of Malakand, 2011--2014
 19. Member, Committee for Computerization/Campus Management Software, 2013--2014
 20. Convener, Departmental Committee for monitoring and evaluation of M.Sc and BS final year software projects at Deptt: of Computer Science & IT, University of Malakand, since 17-Apr-2012 to April, 2014.
 21. Member of Board of Studies as an Expert for developing curriculum for BS-Software Engineering, ICIT, Gomal University, D.I.Khan, Pakistan, from 04-Sep-2015 to September, 2017.
 22. Member of Academic Council as Sectional Head CS & IT, University of Malakand, attended the meeting on 22-Mar-2018
 23. Member of Departmental Academic Committee, CS & IT, University of Malakand, notified via UOM/CS/IT/2019/169, Dated: 17-Apr-2019.
 24. **Focal Person** for “Young Champions of Technology (YCT)” at University of Malakand, notified by the Registrar office, Ref.No: UOM/Estt/19/3706, Dated: 28-Oct-2019, to the Director, Directorate of Science and Technology, Government of Khyber Pakhtunkhwa, Pakistan.
 25. Convener of the Scrutiny Committee for M.Phil/PhD Admission Forms for Spring 2021, notified by the Chairman, CS & IT, Dated: 18-Feb-2021.

26. Nominated as member of the Board of Studies, Deptt: of CS & IT, notified by the Deputy Registrar, Academics, vide letter no. UOM/Acad/21/111, Dated: 16-Feb-2021.
27. **Focal Person** for HEC digital learning program, dlsei.hec.gov.pk, at University of Malakand, notified by the Registrar office, Ref.No: UOM/Acad/21/377, Dated: 27-Aug-2021, to the Director, HEC, Pakistan.

Apart from the above I also participated in the following committees from time to time at University of Malakand

1. Member of Proctorial board
2. Member of Examination UFM committee and Appellate committee
3. Member of Gardening Committee
4. Convener of admission committee at Department of Computer Science and IT
5. Member of a committee for designing standard format for Research synopsis and dissertation at University of Malakand, notified on 16-Mar-2011
6. Member of Departmental Purchase Committee for University Staff Hostel in March, 2011

RESEARCH EXPERIENCE

Statement on research interests

I am an active researcher in the field of Computer Science (Global Software Engineering). I have great interests in empirically exploring and designing innovative processes in order to improve systems development in organisations. My research interests are: Global Software Development (GSD), software outsourcing, Cloud Computing, Green Computing, project management, empirical software engineering, process measurement, information systems development improvement, information systems quality, software process improvement, quality assurance, requirements engineering and evidence-based software engineering. I have developed software outsourcing vendors' readiness model (SOVRM) during my PhD at Keele University UK. Currently I am leading software engineering research group (SERG_UOM) at the university since January, 2011. Till date I have successfully supervised 04 PhD and 10 MPhil scholars whereas currently supervising 03 PhD and 08 MPhil scholars. I was also a co-supervisor of various MPhil research students at KUST, NUST and Iqra University Islamabad.

Publications Summary

Venue	Total Number of Publications
Journals	72
Conferences	50
Books/Book Chapters	04
Technical Reports	03
Grand Total	129
PhD students supervised successfully: 04	
Currently supervising PhD students: 04	
MPhil students supervised successfully: 10	

Currently supervising MPhil students: 08
h-index: 19 , i10-index: 51 , Total IF: 40+
Total citations at Google Scholar (till date): 1864

Refereed Journals

1. Rafiq Ahmad Khan, **Siffat Ullah Khan**, Habib Ullah Khan and Muhammad Ilyas (2021), Systematic Literature Review on Security Risks and its Practices in Secure Software Development, (in press), Journal of IEEE Access. (Journal Impact Factor: 4.6, Publisher: IEEE, ISI indexed journal)
2. **Siffat Ullah Khan**, Habib Ullah Khan, Naeem Ullah and Rafiq Ahmad Khan (2021), Challenges and their Practices in Adoption of Hybrid Cloud Computing: An Analytical Hierarchy Approach, Security and Communication Networks, 2021, Sep 3; 2021. (Journal Impact Factor: 1.79, Publisher: Wiley, ISI indexed journal)
3. Mahmood Niazi, Habib Ullah Khan, Mohamed El-Attar, Naveed Ikram, **Siffat Ullah Khan**, and Asif Qamar Gill (2021), Empirical Investigation of Critical Requirements Engineering Practices for Global Software Development, Journal of IEEE Access, July, 2021. (Journal Impact Factor: 4.6, Publisher: IEEE, ISI indexed journal)
4. Ashfaq Ahmad, **Siffat Ullah Khan**, Habib Ullah Khan, Ghulam Murtaza Khan and Muhammad Ilyas (2021), Challenges and Practices Identification Via A Systematic Literature Review In The Adoption Of Green Cloud Computing: Client's Side Approach, Journal of IEEE Access, vol. 9, pp. 81828-81840, 2021, doi: 10.1109/ACCESS.2021.3085707, June, 2021. (Journal Impact Factor: 4.6, Publisher: IEEE, ISI indexed journal)
5. Nasir Rashid, **Siffat Ullah Khan**, Habib Ullah Khan and Muhammad Ilyas (2021), Green-Agile Maturity Model: An Evaluation Framework for Global Software Development Vendors, Journal of IEEE Access, doi: 10.1109/ACCESS.2021.3079194, May, 2021. (Journal Impact Factor: 4.6, Publisher: IEEE, ISI indexed journal).
6. Rafiq Ahmad Khan, **Siffat Ullah Khan**, Habib Ullah Khan and Muhammad Ilyas (2021), Systematic Mapping Study on Security Approaches in Secure Software Engineering, Journal of IEEE Access, Digital Object Identifier: 10.1109/ACCESS.2021.3049226 (Journal Impact Factor: 4.6, Publisher: IEEE, ISI indexed journal)
7. Majid Hussain, Habib Ullah Khan, Abdul Wahid Khan, and **Siffat Ullah Khan** (2021), Prioritizing the Issues extracted for Getting Right People on Right Project in Software Project Management from Vendors' perspective, Journal of IEEE Access, Digital Object Identifier: 10.1109/ACCESS.2021.3049226 (Journal Impact Factor: 4.098, Publisher: IEEE, ISI indexed journal).
8. Sikandar Ali, Hongqi Li, **Siffat Ullah Khan** and Jewei Huang (2020), A framework for modelling structural associations among barriers to software outsourcing partnership formation: An interpretive structural modelling approach,, DOI: 10.1002/smr.2243, Journal of Software: Evolution and Process (JSEP), (Journal Impact Factor: 1.305, Online ISSN: 2047-7481, Publisher: Wiley, ISI indexed journal, <https://mc.manuscriptcentral.com/jsme>).
9. Sikandar Ali, Hongqi Li, **Siffat Ullah Khan**, Abrar Faisal and Yanhong Zhao (2020), Practitioner's view of barriers to software outsourcing partnership formation: An empirical exploration, Journal of Software: Evolution and Process (JSEP), (Journal Impact Factor: 1.305, Online ISSN: 2047-7481, Publisher: Wiley, ISI indexed journal, <https://mc.manuscriptcentral.com/jsme>).
10. Rafiq Ahmad Khan, Mohd Yazid Idris, **Siffat Ullah Khan**, Muhammad Ilyas Khan, Sikandar Ali, Ghulam Murtaza, Aziz ud Din, Abdul Wahid Khan and Saheedullah Jan

- (2019), An evaluation framework for communication and coordination processes in offshore software development outsourcing relationship: Using Fuzzy methods, Journal of IEEE Access, Digital Object Identifier: 10.1109/ACCESS.2019.2924404, available at, <https://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=8743360> (Journal Impact Factor: 4.098, Publisher: IEEE, ISI indexed journal).
11. Muhammad Salam and **Siffat Ullah Khan** (2018), Challenges in the Development of Green and Sustainable Software for Software Multi-sourcing Vendors: Findings from Systematic Literature Review and Industrial Survey, Journal of Software: Evolution and Process (JSEP), DOI: 10.1002/smr.1939, Vol: 30, Issue 8, e1939, August 2018. (Journal Impact Factor: 1.305, Online ISSN: 2047-7481, Publisher: Wiley, ISI indexed journal, <https://mc.manuscriptcentral.com/jsme>).
 12. Nasir Rashid and **Siffat Ullah Khan** (2018), Using Agile Methods for the Development of Green and Sustainable Software: Success Factors for GSD Vendors, Journal of Software: Evolution and Process (JSEP), Vol: 30, Issue 8, e1927, August 2018. (Journal Impact Factor: 1.305, Online ISSN: 2047-7481, Publisher: Wiley, ISI indexed journal, <https://mc.manuscriptcentral.com/jsme>).
 13. Nasir Rashid and **Siffat Ullah Khan** (2018), Agile Practices for Global Software Development Vendors in the Development of Green and Sustainable Software, Journal of Software: Evolution and Process (JSEP), DOI: 10.1002/smr.1964, Vol: 30, Issue 10, e1964, October 2018. (Journal Impact Factor: 1.305, Online ISSN: 2047-7481, Publisher: Wiley, ISI indexed journal, <https://mc.manuscriptcentral.com/jsme>).
 14. Sikandar Ali, Hongqi Li, **Siffat Ullah Khan**, YanHong Zhao and Li Li (2018), Fuzzy Multi Attribute Assessment Model for Software Outsourcing Partnership Formation, Journal of IEEE Access, 2018, DOI: [10.1109/ACCESS.2018](https://doi.org/10.1109/ACCESS.2018.2764946), Vol: 6, pp:55431-55461, October 2018 (Journal Impact Factor: 4.098, Publisher: IEEE, ISI indexed journal), available at: <https://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=8470075>.
 15. Sikandar Ali, Hongqi Li, **Siffat Ullah Khan**, Yan Zhongguo and Zhu Liping (2017), Success Factors for Software Outsourcing Partnership Management: An Exploratory Study Using Systematic Literature Review, Journal of IEEE Access, Volume 5, Issue 1, pp: 23589—23613, 2017, DOI: [10.1109/ACCESS.2017.2764946](https://doi.org/10.1109/ACCESS.2017.2764946) (Journal Impact Factor: 4.098, Publisher: IEEE, ISI indexed journal).
 16. Muhammad Ilyas and **Siffat Ullah Khan** (2017), Software Integration in Global Software Development: Challenges for GSD Vendors, Journal of Software: Evolution and Process (JSEP), Vol. 29, Issue 8, e1875, pp. 1-17, August 2017. (Journal Impact Factor: 1.305, Online ISSN: 2047-7481, Publisher: Wiley, ISI indexed journal, <https://mc.manuscriptcentral.com/jsme>).
 17. **Siffat Ullah Khan** and Abdul Wahid Khan (2017), Critical challenges in managing offshore software development outsourcing contract from vendors' perspectives, Journal of IET Software, Volume 11, Issue 1, February 2017, Pages 1-11. (Journal Impact Factor: 0.695, Publisher: IEEE, Country: UK, ISI Indexed journal)
 18. Mahmood Niazi, Sajjad Mahmood, Mohammad Alshayeb, Mohammed Rehan Riaz, Kanaan Faisal, **Siffat Ullah Khan** and Ita Richardson (2016), Challenges of Project Management in Global Software Development: A Client-Vendor Analysis, Volume 80, 2016, Pages 1–19, Information and Software Technology Journal (IST), <http://www.sciencedirect.com/science/article/pii/S0950584916301227>. (Journal Impact Factor: 2.921, Publisher: Elsevier/ScienceDirect, Country: Netherlands, ISI Indexed journal, ISSN: 0950-5849)

19. Sikandar Ali and **Siffat Ullah Khan** (2016), Software Outsourcing Partnership Model: An Evaluation Framework for Vendor Organisations, *Journal of Systems and Software*, 117 (2016) Pages 402-425, 2016. (Journal Impact Factor: 2.559, Publisher: Elsevier, Country: USA, ISI Indexed journal, ISSN: 0164-1212).
20. **Siffat Ullah Khan** and Muhammad Ilyas Azeem (2014), Intercultural challenges in offshore software development outsourcing relationships: an exploratory study using a systematic literature review, *Journal of IET Software*, Volume 8, Issue 4, 2014, pp. 1-13. (Journal Impact Factor: 0.695, Publisher: IEEE, Country: UK, ISI Indexed journal).
21. Abdul Wahid Khan and **Siffat Ullah Khan** (2013), Critical success factors in offshore software development outsourcing contract management from vendors' perspective: an exploratory study using a systematic literature review, *Journal of IET Software*, Volume 7, Issue 6, 2013, pp. 327-338. (Journal Impact Factor: 0.695, publisher: IEEE, Country: UK, ISI Indexed journal).
22. Mahmood Niazi, Naveed Ikram, Muneera Bano, Salama Imtiaz and **Siffat Ullah Khan** (2013), Establishing trust in offshore software outsourcing relationships: an exploratory study using a systematic literature review, *Journal of IET Software*, Volume 7, Issue 5, October 2013, pp. 283-293. (Journal Impact Factor: 0.695, publisher: IEEE, Country: UK, ISI Indexed journal).
23. **Siffat Ullah Khan**, Mahmood Niazi and Rashid Ahmad (2012), Empirical investigation of success factors for offshore software development outsourcing vendors, *Journal of IET Software*, Volume 6, Issue 1, pp. 1-15. (Journal Impact Factor: 0.695, publisher: IEEE, Country: UK, ISI Indexed journal).
24. **Siffat Ullah Khan**, Mahmood Niazi and Rashid Ahmad (2011), Barriers in the selection of offshore software outsourcing vendors: an exploratory study using a systematic literature review, *Information and Software Technology Journal*, 53(7), 693-706. (Journal Impact Factor: 2.921, Publisher: Elsevier/ScienceDirect, Country: Netherlands, ISI Indexed journal).
25. **Siffat Ullah Khan**, Mahmood Niazi and Rashid Ahmad (2011), Factors influencing clients in the selection of offshore software outsourcing vendors: an exploratory study using a systematic literature review, *Journal of Systems and Software*, 84(4), 686-699. (Journal Impact Factor: 2.559, Publisher: Elsevier/ScienceDirect, Country: USA, ISI Indexed journal).
26. **Siffat Ullah Khan** and Naeem Ullah (2016), Challenges in the Adoption of Hybrid Cloud: An Exploratory Study using Systematic Literature Review, *The Journal of Engineering* 2016 (5), 107—118, ISSN: 2051-3305, IET Digital Library, 2016/4/15, 2016, Doi: 10.1049/joe.2016.0089, <http://ietdl.org/t/oh6gAb>.
27. **Siffat Ullah Khan** and Naeem Ullah (2017), Practices for Clients in the Adoption of Hybrid Cloud, *Proceedings of the Pakistan Academy of Sciences: A Physical and Computational Sciences*, 54(1), pp. 13-32, March, 2017.
28. Rafiq Ahmad Khan and **Siffat Ullah Khan** (2017), Empirical Exploration of Communication and Coordination Practices in Offshore Software Development Outsourcing, *Journal of Proceedings of the Pakistan Academy of Sciences: A Physical and Computational Sciences*, 54(1), pp. 41-54, March, 2017.
29. Muhammad Salam and **Siffat Ullah Khan** (2017), Risks Mitigation Practices for Multi-Sourcing Vendors in Green Software Development, *Journal of Proceedings of the Pakistan Academy of Sciences: A Physical and Computational Sciences*, 54(1), pp. 71-87, March, 2017.

30. Muhammad Ilyas and **Siffat Ullah Khan** (2016), An Exploratory Study of Success Factors in Software Integration for Global Software Development Vendors, Journal of Proceedings of the Pakistan Academy of Sciences: A Physical and Computational Sciences, 53(3), pp: 239–253, September, 2016, <http://www.paspk.org/proceeding/proc-of-the-pas-a-53-no-2/> .
31. Muhammad Imran Khan, **Siffat Ullah Khan**, Abdul Wahid Khan and Iqbal Qasim (2016), Critical Barriers in Project Management Faced by Offshore Software Multi-Sourcing Vendors: A Detailed Study, Journal of Proceedings of the Pakistan Academy of Sciences: A Physical and Computational Sciences, 53(3), pp: 239-253, September, 2016, <http://www.paspk.org/proceeding/proc-of-the-pas-a-53-no-2/> .
32. Sikandar Ali and **Siffat Ullah Khan** (2016), Practices for implementation of the Critical Success Factors in Software Outsourcing Partnership from Vendors' Perspective: A Literature Review, Journal of Proceedings of the Pakistan Academy of Sciences: A Physical and Computational Sciences, 53(2), 145-162, June, 2016, <http://www.paspk.org/proceeding/proc-of-the-pas-a-53-no-2/>
33. **Siffat Ullah Khan** and Muhammad Ilyas Azeem (2016), Intercultural Challenges in Offshore Software Development Outsourcing Relationship: An Empirical Study, Journal of Proceedings of the Pakistan Academy of Sciences: A Physical and Computational Sciences, 53(1), 75-88, March 2016, <http://www.paspk.org/proceeding/proc-of-the-pas-a-physical-and-computational-sciences/> .
34. Abdul Wahid Khan and **Siffat Ullah Khan** (2015), Solutions for Critical Challenges in Offshore Software Outsourcing Contract, Proceedings of Pakistan Academy of Sciences Journal, Volume 52(4). Pp: 331–344, December 2015, <http://www.paspk.org/Proceedings-of-the-PAS-39> .
35. **Siffat Ullah Khan** and Sikandar Ali (2015), Empirical Investigation of Success Factors for Establishing Software Outsourcing Partnership from Vendor's Perspective, Proceedings of Pakistan Academy of Sciences Journal, Volume 52(4), pp: 315–328, December 2015, <http://www.paspk.org/Proceedings-of-the-PAS-39> .
36. Rahmat Ullah Khan, **Siffat Ullah Khan**, Rafiq Ahmad Khan and Sikandar Ali (2015), Motivators in Green IT-outsourcing from Vendors Perspective: A Systematic Literature Review, Proceedings of Pakistan Academy of Sciences Journal, Volume 52(4), pp: 345–360, December 2015, <http://www.paspk.org/Proceedings-of-the-PAS-39> .
37. Nasir Rashid and **Siffat Ullah Khan** (2015), Green Agility for Global Software Development Vendors: A Systematic Literature Review Protocol, Proceedings of Pakistan Academy of Sciences Journal, Volume 52(4), pp: 301–313, December 2015, <http://www.paspk.org/Proceedings-of-the-PAS-39> .
38. Muhammad Salam and **Siffat Ullah Khan** (2015), Systematic Literature Review Protocol for Green Software Multi-Sourcing with Preliminary Results, Proceedings of Pakistan Academy of Sciences Journal, Volume 52(4), pp: 285–300, December 2015, <http://www.paspk.org/Proceedings-of-the-PAS-39> .
39. Rafiq Ahmad Khan and **Siffat Ullah Khan** (2014), Communication and coordination challenges in offshore software outsourcing relationships: A systematic literature review protocol, Vol: 30, Issue: 1, June 2014, Gomal University Journal of Research, Pakistan. (HEC recognized journal, ISSN 1019-8180)
40. Muhammad Yaseen, **Siffat Ullah Khan** and Asad Ullah Alam (2013), Software multi-sourcing risks management from vendors' perspective: A systematic literature

- review protocol, Vol: 29, Issue: 2, Dec 2013, Gomal University Journal of Research, Pakistan. (HEC recognized journal, ISSN 1019-8180)
41. Muhammad Ilyas, **Siffat Ullah Khan** and Nasir Rashid (2020), Empirical validation of software integration practices in Global Software Development, SN Computer Science (A Springer Nature Journal), ISSN: 196-203X, <https://link.springer.com/content/pdf/10.1007/s42979-020-00175-2.pdf> Vol. 1:157, pp. 1-23, 2020.
 42. Sikandar Ali, Li Hongqi, Siffat Ullah Khan and Yang Zhongguo (2018), Practices in software outsourcing partnership: Systematic literature review protocol with analysis, Journal of Computers (JCP), Volume 13, Number 7, pp: 839-861, July 2018.
 43. Muhammad Ilyas and **Siffat Ullah Khan** (2017), Software Integration Challenges for GSD Vendors: An exploratory study using a systematic literature review, Journal of Computers (JCP), ISSN: 196-203X, www.jcomputers.us/, Vol. 12, No.5, pp. 416-422, 2017.
 44. Sikandar Ali, Li Hongqi, Siffat Ullah Khan and Yang Zhongguo (2017), Industrial validation of software outsourcing partnership model (SOPM): A case study protocol, Journal of Software, 12(10), 773-782, October, 2017, DOI: 10.17706/jsw.12.10.773-782.
 45. Abdul Wahid Khan, **Siffat Ullah Khan** and Fahim Khan (2017), A case study protocol for outsourcing contract management model (OCMM), Journal of Software (JSW), Vol. 12, no.5, pp. 348-354, 2017, <http://www.jssoftware.us/index.php?m=content&c=index&a=show&catid=181&id=2760>.
 46. Rafiq Ahmad Khan, Junfeng Wang, Muhammad Arif, **Siffat Ullah Khan** and Muhammad Yazid Idris (2016), An exploratory study of communication and coordination challenges in offshore software development outsourcing: Results of systematic literature review and empirical study, Sci.Int.(Lahore),28(5),4819-4836, 2016, ISSN 1013-5316; CODEN: SINTE 8, Journal of Science International.
 47. Muhammad Salam and **Siffat Ullah Khan** (2015), Systematic Literature Review (SLR) Protocol for Web Usability Management Model (WEB-UMM) From Customers' Perspective with Preliminary Results, Sci.Int.(Lahore),27(3), 2747-2758, 2015 ISSN 1013-5316; CODEN: SINTE 8, Journal of Science International.
 48. Sadia Rehman and **Siffat Ullah Khan** (2014), Software Quality Attributes in Global Software Development: Initial Results, ISoRIS2014 Malaysia, special issue, International Journal of Science International, 26(4), pp: 1415-1419, 2014.
 49. Abdul Wahid and **Siffat Ullah Khan** (2014), Factors influencing vendor's capability regarding offshore software outsourcing contract: A detail study using systematic literature review, ISoRIS2014 Malaysia, special issue, International Journal of Science International, 26(4), pp: 1409-1413, 2014.
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125. **Siffat Ullah Khan** and Mahmood Niazi (2010), An Analysis of software outsourcing practitioners' perceptions on success factors for offshore software outsourcing vendors: Keele Research symposium, 2010, Keele University, UK.
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Books Publications

128. Asad Ullah Alam and **Siffat Ullah Khan (2013)**, Knowledge Sharing Management in Software Outsourcing Projects: A Systematic Literature Review, [LAP LAMBERT Academic Publishing](http://www.morebooks.de/store/gb/book/knowledge-sharing-management-in-software-outsourcing-projects/isbn/978-3-659-47451-4) (2013-10-17) - ISBN-13: 978-3-659-47451-4, Germany.
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131. **Siffat Ullah Khan** and Mahmood Niazi (2010), Critical Success Factors for Offshore Software Development Outsourcing Vendors: An Empirical Study, Book Chapter, Product-Focused Software Process Improvement, LNCS 2010, Volume: 6156/2010, 146-160, publisher: Springer.

Research supervision

- I am HEC Approved PhD Supervisor, link available at: <http://sc.hec.gov.pk/aphds/submit.asp?supid=4292>
- I am leading Software Engineering Research Group (SERG_UOM) at University of Malakand. SERG_UOM was founded/established by me in January, 2011. Further details are available at the following link: <http://csit.uom.edu.pk/serg.html>
- Supervised successfully 04 PhD and 10 M.Phil students in the area of Global Software Engineering at the Department of Computer Science & IT, University of Malakand. Similarly currently supervising another 04 PhD students and 05 M.Phil research scholars.
- I have examined, as external examiner, various MPhil/PhD theses in Computer Science at University of Peshawar, Gomal University, FAST-National University Islamabad and Riphah International University Islamabad.
- Co-supervised three MS/MPhil students at KUST, NUST and Iqra University Islamabad.
- I have supervised many research projects and information systems development projects at University of Malakand.

PhD Thesis Supervised

I have successfully supervised 04 PhD scholars at University Malakand. The names of these PhD scholars, I have supervised so far, are listed below:

1. Abdul Wahid Khan (Thesis Title: Outsourcing Contract Management Model, session: 2012-2016), PhD public defence held on 1st April, 2016.
2. Muhammad Ilyas (Thesis Title: Software Integration Model for Global Software Development, Session: 2012- 2017), PhD public defence held on 22-Sep-2017.
3. Nasir Rashid (Thesis Title: Green Agile Maturity Model for Global Software Development Vendors, Session: 2012-2017), PhD public defence held on 15th December, 2017.
4. Muhammad Salam (Thesis Title: Green Software Multi-Sourcing Readiness Model for Vendors, session: 2011-2018), PhD public defence held on 4th April, 2018.

Currently Enrolled PhD students:

5. Ghulam Murtaza (enrolled in PhD since 2017)
6. Rafiq Ahmad Khan (enrolled in PhD since 2017)
7. Naeem Ullah (enrolled in PhD since 2020)
8. Nisar Muhammad (enrolled in PhD since 2021)

MPhil Thesis Supervised

Till date I have successfully supervised 10 MPhil scholars. All of these students have **successfully earned their MPhil degrees**. The details are as follow:

1. Rafiq Ahmad Khan (Thesis Title: Communication and Coordination Challenges Mitigation for Offshore Software Development Outsourcing Vendors, Degree awarded in 2015)
2. Muhammad Ilyas Azeem (Thesis Title: Intercultural Challenge Mitigation Model for Offshore Software Development Outsourcing Vendors, Degree awarded in 2016)
3. Sikandar Ali (Thesis Title: Software Outsourcing Partnership Model, Degree awarded in 2016)
4. Naeem Ullah (Thesis Title: Hybrid Cloud Adoption Assessment Model, Degree awarded in 2016)
5. Irshad Ali (Thesis Title: Agile Software Outsourcing Model, Degree awarded in 2016)
6. Muhib Ullah (Thesis Title: Mobile Commerce Customers Relationships Management Model, Degree awarded in 2016)
7. Sadia (Thesis Title: Software Quality Assessment Model for Global Software Development, Degree awarded in 2016)
8. Hazrat Umar (Thesis Title: Design Model for Developers in the context of Embedded Real Time Systems, Degree awarded in 2016)
9. Muhammad Imran Khan (Thesis Title: Project Management for Software Multi-Sourcing Vendors, Registration number: 051-12-117131, Iqra University Islamabad Campus, Thesis defence held on 28-February 2017).
10. Muhammad Yaseen (Thesis Title: Multisourcing Risks Management Model (MRMM), Registration number:CS320101001, KUST, Thesis defence held on 12-Apr-2017)

Currently Enrolled MPhil Students:

11. Waqar Ali, MPhil scholar, CS IT, UOM, (Enrolled since 2017)
12. Muhammad Ashfaq, MPhil scholar, CS IT, UOM, (Enrolled since 2017)
13. Muhammad Salman, MPhil scholar, CS IT, UOM, (Enrolled in 2017)
14. Asif Ullah, MPhil scholar, CS IT, UOM, (Enrolled in 2018)

15. Asif Iqbal, MPhil scholar, CS IT, UOM, (Enrolled in 2018)
16. Zia Ullah, MPhil scholar, CS IT, UOM, (Enrolled in 2020)
17. Ikram Ullah, MPhil scholar, CS IT, UOM, (Enrolled in 2020)
18. Sana Ullah, , MPhil scholar, CS IT, UOM, (Enrolled in 2021)

Research Projects:

1. Successfully supervised one HEC PhD indigenous scholar (Abdul Wahid Khan) and one MPhil scholar (Hazrat Umar) at University of Malakand. Both scholars were funded by HEC Pakistan.
2. Submitted a research project for funding to ORIC UOM.
3. Submitted a research project for funding to NRPU, HEC.

Workshops Organized

Successfully organized, as Chief organizer, 05 research workshops at the Deptt. of CS & IT, University of Malakand. Currently leading Software Engineering Research Group (SERG-UOM) since 2011.

Awards/Achievements/grants received

- Gold Medal (Dr.M.N.Azam Prize in Computer (Software) 2015) by Pakistan Academy of Sciences.
- “Academic Professional Award" in "International Business and Academic Excellence Awards (IBAE-2019)” in recognition of your exceptional calibre and outstanding performance in your chosen area of Academic & Research, by GISR foundation, at Dubai, UAE, 2019.
- The minister for Higher Education, Mr Mushtaq Ahamad Ghani, presented me the Best Researcher Award, 1st position in the faculty of Computer Science, IT and Software Engineering, awarded by the ORIC, University of Malakand, on 22-May-2017. The Vice Chancellor University of Malakand, awarded me a Cash prize of Rs.20,000 on 22-May-2018 for being the Best researcher in Faculty of Computer Science, IT and Software Engineering.
- The Vice Chancellor University of Malakand has honoured me with the remarks/title of Role Model for young researchers. These remarks have been published in the Daily Mashriq, dated 15-Nov-2015 and also in the UOM 21st Issue of the Newsletter (copy attached).
- Received 3rd and 5th position in the directory of Productive Scientists of Pakistan (PSP 2016) for the Discipline Computer Science for the lists of under 40, and All, by Pakistan Council for Science and Technology (PCST).

- Nominated by the University of Malakand for Conferment of Pakistan Civil Awards-2018 “Imtiaz” for the year 2018, vide notification by the office of the Assistant Registrar, Ref.No: UOM/Acad-I/2018/14787, Dated: 08-Jun-2018 to HED, KPK and subsequently forwarded to HEC, vide letter Ref.No: UOM/Acad-I/2018/14800, Dated: 14-Jun-2018.
- Nominated by the University of Malakand for HEC “Best Teacher Award” for the year 2016.
- Nominated by the University of Malakand for HEC “Best Teacher Award” for the year 2014, vide letter of Registrar, Ref.No: UOM/Acad-I/2015/9415, Dated: 30-Jul-2015.
- Nominated by the University of Malakand for HEC “Best Young Researcher Award in Computer Science” for the year 2016.
- HEC Pakistan, FDP scholarship for PhD studies at Keele UK, Jan-2008 to Dec-2010
- HEC Pakistan, Travel Grant for research paper presentation, 7th –9th Aug-2018, at Kuching, Malaysia, vide Letter no: 297.19/TG/R&D/HEC/2017/26731, Dated: 18-Jul-2018.
- HEC Pakistan, Travel Grant for research paper presentation, 18-21 Aug-2014, at Shanghai, China, vide Letter no: 203.84/TG/ R&D /HEC/2014/744, Dated: 22-Jul-2014.
- HEC Pakistan, Travel Grant for research paper presentation at Limerick, Ireland, vide Letter no: 80.10/1/HEC (R&D)/09/442, Dated: 09-Jul-2009.
- Published various research papers in ISI Quartile 1 (Q1) journals.
- Successfully supervised/produced 4 PhD scholars, as the sole principal supervisor, and as per HEC quantification criteria, production of one PhD is equivalent to one successfully completed Post-Doc position.
- Successfully supervised/produced 10 MPhil scholars.
- Earlier, offered/Appointed (Confirmed appointment letter) for the position of Associate Professor, by Northern Border University, Kingdom of Saudi Arabia.
- Earlier, offered/Appointed (Confirmed appointment letter) for the position of Associate Professor, by University of Swabi, Pakistan.
- Nomination as Subject Expert by Higher Education Commission (HEC) for PhD FDP Overseas scholarships-University of Swat, notified via email by the HEC Project Director, on 04-Sep-2018.
- Recently received a confirmed offer/appointment letter as **Professor** of Computer Science at University of Science and Technology Bannu, Pakistan.

National and international reputation in the field

Professional membership of Association for Computing Machinery (ACM) since October, 2021.

I am HEC Approved PhD Supervisor, link available at: <http://sc.hec.gov.pk/aphds/submit.asp?supid=4292>

I am actively contributing to an academic community and my work has been recognised internationally.

My Google Profile is available at the following link, which shows the citations to my articles and h-index.

<http://scholar.google.com.pk/citations?user=y261wGIAAAAJ&hl=en>

<http://www.linkedin.com/pub/dr-siffat-ullah-khan/12/964/11>

In addition, I am/was an active member of the program/review committee for each of the following conferences/journals:

- Review Editor, Frontiers in Computer Science- Software
- Journal of Systems and Software (JSS)
- Journal of Information and Software Technology (IST)
- Journal of Computer Standards & Interfaces
- Journal of IET Software
- Journal of Software: Evolution and Process (JSEP)
- Arabian journal for Science and Engineering
- Asian Academy of Management Journal
- Journal of IEEE ACCESS
- Journal of SpringerPlus, <http://www.springerplus.com/>
- Journal of Information, <http://www.pakinsight.com/?ic=aimandscope&journal=104>
- Journal of Digital Content Technology and its Applications (<http://www.aicit.org/jdcta/>)
- Journal of Science and Technology, University of Peshawar, Pakistan.
- AFRICAN JOURNAL OF BUSINESS MANAGEMENT, www.academicjournals.org, July, 2013
- Journal of Software Engineering and Application (JSEA), Scientific Research Publishing, Dec, 2016
- Journal of SoftwareX, July 2018, https://www.evise.com/profile/#/SOFTX/login?resourceUrl=%2Ffaces%2Fpages%2Fnavigation%2FNavController.jspx%3FJRNL_ACR%3DSOFTX%26page%3DManuscript%26param%3D2400070%26_adf.ctrl-state%3Da54pq87th_9
- Journal: Energy Reports, Publisher: Elsevier, The Netherlands, Dec, 2018, Mar, 2019 https://www.evise.com/evise/faces/pages/oversight/Oversight.jspx?_adf.ctrl-state=n95vhtna_220
- Technical Program Committee member of the International Conference on ICTs, UST-Bannu (2008), Pakistan
- Technical Program Committee member of the 5th Malaysian Software Engineering Conference, MySEC'2011, Malaysia (<http://seminar.utmspace.utm.my/mysec2011/Committe.html>)
- Technical Program Committee member of the 15th IEEE International Multi Topic Conference (INMIC), December 13-15, 2012, Islamabad, Pakistan.
- Technical Program Committee member of the 6th Malaysian Software Engineering Conference, MySEC'2012, Malaysia
- Technical Program Committee member of the IEEE 8th International Conference on Digital Information Management (ICDIM 2013), September 10-12, 2013, Islamabad, Pakistan.
- Technical Program Committee member of the IEEE 12th International Conference on Frontiers of Information Technology (FIT 2014), December 17-19, Islamabad, Pakistan.
- Technical Program Committee member of the 2015 Americas Conference on Information Systems (AMCIS), Puerto Rico, Aug 13-15, 2015.

- Technical Program Committee member of the IEEE 13th International Conference on Frontiers of Information Technology (FIT 2015), December 14-16, Islamabad, Pakistan.
- Technical Program Committee member of the 5th International Conference on Software and Information Engineering, <http://www.icsie.org/index.html> ICSIE, May 11-13, 2016, Tokyo, Japan.
- Technical Program Committee member of the IEEE International Conference on Software Engineering and Knowledge Discovery (ICSEKD2016), <http://iares.net/SoftwareEng>, September 22-24, 2016, Agadir, Morocco.
- Technical Program Committee member of the IEEE International Conference on Communication, Computing and Digital Systems (C-COD 2017), <http://ccode.bahria.edu.pk/>, March 8-9, 2017, Islamabad, Pakistan.
- Technical Program Committee member of the 13th International Conference on Software Engineering Advances (ICSEA 2018), Nice, France.
- Technical Program Committee member of the workshop on Empirical Studies in the Domain of Global Software Engineering (ESDGSE2019), Greece.
- Technical Program Committee member of the XP2021 Research WS - Agile Sustainability, 22nd International Conference on Agile Software Development, June 14-18, 2021, organized by Greece. <https://www.agilealliance.org/xp2021/>

COLLABORATION/LINKAGES WITH RESEARCHERS AND COLLEAGUES

I retain close ties with researchers in Software Engineering area. Currently I am collaborating with KFUPM Saudi Arabia, University of Limerick Ireland, Cambridge University, Keele University UK, NICTA Australia, Auckland University of Technology New Zealand, UTM Malaysia, China University of Petroleum, Beijing, COMSATS Islamabad, NUST Pakistan, Kohat University of Science & Technology (KUST) Pakistan, International Islamic University, Pakistan, UST Bannu, Riphah International University, Pakistan, AWKUM Pakistan, Iqra university Islamabad, FAST National University Islamabad and NUML Islamabad. Further, I am leading the Software Engineering Research Group (SERG_UOM) at University of Malakand since January, 2011.

Overall Summary of Achievements/Professional Services/Contributions

A summary of my professional services/contributions is listed as follow:

1. I have served the University of Malakand as a pioneer teacher in Computer Science since December 1st 2001 till date. (20 years).
2. Research publications: 129, citations: 1864, H-index: 19
3. Recently won International Award, in International Business and Academic Excellence Awards (IBAE-2019), Dubai, in recognition of Academic and Research contributions.
4. Gold Medal (Dr.M.N.Azam Prize in Computer (Software) 2015), awarded by Pakistan Academy of Sciences in 2015.
5. The minister for Higher Education, Mr Mushtaq Ahamad Ghani, presented me the Best Researcher Award, awarded by the ORIC, University of Malakand, on 22-May-2017.
6. The Vice Chancellor University of Malakand, awarded me a Cash prize of Rs.20,000 on 22-May-2018 for being the Best researcher in Faculty of Computer Science, IT and Software Engineering.

7. Successfully supervised/produced 4 PhD scholars, as the sole principal supervisor, and as per HEC quantification criteria, production of one PhD is equivalent to one successfully completed Post-Doc position.
8. Successfully supervised/produced 10 MPhil scholars.
9. Establishment of Department of Software Engineering and worked as HOD/Incharge of the Department for almost 3 years. Further, worked as Chairman/Incharge Department of Computer Science twice.
10. Apart from teaching and research contributions, I have also served at various administrative positions from time to time.
11. Initiation of MPhil/PhD program at the Deptt: in 2011 and worked as a convener/coordinator of the program for almost 3 years.
12. The ex-Vice Chancellor University of Malakand had honoured me with the remarks/title of Role Model for young researchers. These remarks have been published in the Daily Mashriq, dated 15-Nov-2015 and also in the UOM 21st Issue of the Newsletter.
13. Team Leader: I established Software Engineering Research Group (SERG_UOM) and leading the research group since Jan, 2011.
14. Received 3rd and 5th position in the directory of Productive Scientists of Pakistan (PSP 2016) for the Discipline Computer Science for the lists of scientists under 40 years, and All, by Pakistan Council for Science and Technology (PCST).
15. Nominated by the University of Malakand for HEC “Best Teacher Award” for the year, 2014 and 2016.
16. Earlier, offered/Appointed (Confirmed appointment letter) for the position of Associate Professor, by Northern Border University, Kingdom of Saudi Arabia. Similarly, received Confirmed appointment letter for the position of Associate Professor, by University of Swabi, Pakistan in 2016.
17. Nomination as Subject Expert by Higher Education Commission (HEC) for PhD FDP Overseas Scholarships-University of Swat, notified via email by the HEC Project Director, on 04-Sep-2018
18. Successfully organized 5 research workshops at the Department of CS & IT, University of Malakand.
19. Successfully conducted/organized, as Chief Organizer, First International Online Workshop on Cybersecurity at the Department of CS & IT, University of Malakand, held on 04-June-2021.
20. Recently received a confirmed offer/appointment letter as **Professor** of Computer Science at University of Science and Technology Bannu, Pakistan.

REFEREES

S.No	International Linkages (Research Collaborators)	National
1	<p>Prof. Dr Mahmood Niazi (PhD Supervisor at Keele University UK, 2008-2010) Professor, Department of Information and Computer Science, King Fahd University of Petroleum and Minerals, Saudi Arabia Email: mkniazi@kfupm.edu.sa</p>	<p>Prof.Dr. Naveed Ikram Professor of Software Engineering Department of Computer Science and Software Engineering, Riphah International University, Islamabad. Email: naveed.ikram@riphah.edu.pk</p>
2	<p>Prof.Dr. Ita Richardson Principal Investigator, Lero - the Irish Software Research Centre www.lero.ie Department of Computer Science & Information Systems www.csis.ul.ie University of Limerick, Ireland Email: ita.richardson@lero.ie</p>	<p>Dr Muhammad Zohaib Iqbal Associate Professor, Dept. of Computer Science, FAST-National University, Islamabad Chief Scientist, QUEST Lab President, Pakistan Software Testing Board Senior Member, IEEE QUEST Lab: http://www.questlab.pk Email: zohaib.iqbal@nu.edu.pk</p>
3	<p>Dr Tony Clear, PhD Associate Professor, Associate Dean Research Faculty Of Design & Creative Technologies Auckland University of Technology Private Bag 92006, Auckland 1142 New Zealand Email: tony.clear@aut.ac.nz</p>	<p>Dr Muhammad Noman Malik Assistant Professor Department of Computer Science National University of Modern Languages (NUML) Islamabad Campus, Pakistan Email: mnauman@numl.edu.pk</p>