

CURRICULUM VITAE

Prof. Dr. Sharifullah Khan

Tamgha-i-Imtiaz

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Education

- 2002** PhD (Computer Science): School of Computing, the University of Leeds, Leeds, UK
Thesis Title: *'The Optimisation of Continual Queries'*
- 1994** MSc (Computer Science): Computer Centre, Gomal University, D. I. Khan, Pakistan
- 1991** BSc (Computer Science): Government Degree College No.1, D.I.Khan, Gomal University, D.I.Khan, Pakistan

Employment

Academic Positions

- **Professor (07/2020 – to date)**. Department of Computer & IT, Faculty of Electrical, Computer, IT & Design, Pak-Austria Fachhochschule: Institute of Applied Sciences and Technology, Mang, Haripur, KP, Pakistan,
- **Professor (09/2019 – 06/2020)**. Department of Computing (DoC), School of Electrical Engineering and Computer Science (SEECS), National University of Sciences and Technologies (NUST), Islamabad, Pakistan.
- **Associate Professor (03/2008 – 08/2019)**. Department of Computing (DoC), School of Electrical Engineering and Computer Science (SEECS), National University of Sciences and Technologies (NUST), Islamabad, Pakistan.
- **Assistant Professor (03/2003 – 03/2008)**. Department of Computing (DoC), School of Electrical Engineering and Computer Science (SEECS) (i.e., formerly NUST Institute of Information Technology (NIIT)), National University of Sciences and Technologies (NUST), Islamabad, Pakistan.
- **Part-time Demonstrator (09/1998–12/2002)**. School of Computing, University of Leeds, Leeds, UK.
- **Lecturer (01/1996–03/2003)**. Regional Telecom Training School (RTTS) Peshawar, Pakistan Telecommunication Company Ltd (PTCL), Pakistan (On study- leave for PhD studies from 1998–2003)
- **Lecturer (12/1994–12/1995)**. Department of Business Administration. Gomal University, Dera Ismail Khan, Pakistan

Managerial Positions

- **Dean (09/2020– to-date)**. Faculty of Electrical, Computer, IT & Design, Pak-Austria Fachhochschule: Institute of Applied Sciences and Technology, Mang, Haripur, KP, Pakistan

- **Associate Dean/Senior HOD (01/2020– 06/2020).** Department of Computing (DoC), School of Electrical Engineering and Computer Science (SEECS), National University of Sciences and Technologies (NUST), Islamabad, Pakistan.
- **Associate Dean/Senior HOD (09/2012– 12/2014).** Department of Computing (DoC), School of Electrical Engineering and Computer Science (SEECS), National University of Sciences and Technologies (NUST), Islamabad, Pakistan.
- **Head of Dept. (04/2004–12/2007).** Information System Engineering (ISE) department, NUST Institute of Information Technology (NIIT), National University of Sciences and Technologies (NUST), Islamabad, Pakistan.

Honours and Awards

- **HEC Best University Teacher – Award 2015** conferred by Higher Education Commission (HEC) Pakistan, on December 27, 2016.
- **Tamgha-i-Imtiaz (T.I.)** the Civil Award, conferred by the President of the Islamic Republic of Pakistan on Independence Day, 14th August 2013.
- **Best Paper Award** for “*Publishing Institutional Repositories Metadata into the Semantic Web*” by 8th International Conference on Digital Information Management (ICDIM 2013), Islamabad, Pakistan, September 10-12, 2013.
- **Fellowship** for Post Doctorate Research at Institute de Recherche en Informatique de Toulouse (IRIT), UMR 5505 CNRS, Universite Paul Sabatier (UPS), Toulouse, France (September 2005 – August 2006) awarded by CNRS France.
- **Scholarship** for Information Technology Educational Methodology, Third Country Training Programme in Indonesia (August 30 – September 29, 2004) awarded by JICA Japan.
- **Quaid-e-Azam Merit Scholarship** for PhD Studies (1998 – 2002) awarded by Ministry of Education, Govt. of Pakistan in 1997.
- **IZAZ-I-SABQAT Award** conferred by the *President of the Islamic Republic of Pakistan* for obtaining highest percentage marks in the MSc Computer Sciences Examination for the year **1994** in the Province of NWFP, Pakistan.
- **First Class First Position** (Gold Medal) among the successful candidates of MSc in Gomal University, D. I. Khan, Pakistan, **1994**.
- **First Class First Position** (Gold Medal) among the successful candidates of BSc in Gomal University, D. I. Khan, Pakistan, **1991**.

Appreciation/Recognition Letters

1. Letter of Recognition for Local Finance Chair from Principal, NUST SEECS for Successful conduct of 15th International Conference on High-Capacity Optical Networks and Enabling/Emerging Technologies (ICT), held on 8-10 October 2018 at NUST Islamabad, Pakistan.
2. Letter of Recognition for Finance Chair from Principal, NUST SEECS for Successful conduct of 1st International Conference on Cyber Security and Digital Forensics, held on 7-8 December 2016 at NUST Islamabad, Pakistan.
3. Letter of Appreciation from Principal, NUST SEECS for Outstanding Performance as a SEECS Teacher in Fall-2015 Semester.
4. Letter of Appreciation from Principal, NUST SEECS for Outstanding Performance as a SEECS Teacher in Spring-2015 Semester.
5. Letter of Appreciation from Principal, NUST SEECS for Star Researcher of SEECS in the Year 2015 in Department of Computing.

6. Letter of Recognition for Local Finance Chair from Principal, NUST SEecs for Successful conduct of 12th International Conference on High-Capacity Optical Networks and Enabling/Emerging Technologies (ICT), held on 21-23 December 2015 at NUST Islamabad, Pakistan.
7. Letter of Appreciation from Principal, NUST SEecs for Excellent Administrative/Security Committee Convener of SEecs 7th UG Convocation in year November 2014.
8. Letter of Appreciation from Principal, NUST SEecs for Successful conduct of Change-of-Scope visit of Pakistan Engineering Council (PEC) for BESE Program held in June 2013.
9. Letter of Appreciation from Principal, NUST SEecs for Excellent Organization of SEecs Sport Gala 2013 in year May 2013.
10. Letter of Appreciation from Principal, NUST SEecs for Excellent Coordination Committee Dy. Convener of SEecs 6th UG Convocation in year November 2012.
11. Letter of Appreciation from Principal, NUST SEecs for Excellent Event Committee Convener of SEecs 5th UG Convocation in year April 2012.
12. Letter of Recognition for Conference Chair from Principal, NUST SEecs for Successful conduct of 7th International Conference on Emerging Technologies, held on September 5-6, 2011 at NUST Islamabad, Pakistan.
13. Letter of Recognition from Chief Instructor, Military College of Signals, Rawalpindi, Pakistan for contribution in the feasibility study for Army Database Management. January 2009.
14. Letter of Appreciation from Director General, NUST Institute of Information technology for Excellent Event Committee Convener of NIIT 2nd UG Convocation in year May 2007.
15. Letter of Appreciation from Director General, NUST Institute of Information technology for Excellent Promotion Committee Convener of NIIT 1st UG Convocation in year 2005.
16. Letter of Appreciation from Director General, NUST Institute of Information technology for valuable contribution in preparation of NIIT Academic Report, September 2005.
17. Letter of Appreciation from Director General, NUST Institute of Information technology for valuable contribution in bringing out Growth Plan of NIIT, January 2005.

Grants/Funding

- 1) (PI) Funding for Hosting International Conference: 15th International Conference on ‘High-capacity Optical Networks and Enabling/Emerging Technologies (HONET-ICT), October 2018,
 - a. Higher Education Commission (HEC), Islamabad Pakistan, Rs.01.319 million.
 - b. National University of Sciences and Technology (NUST), Islamabad, Pakistan, Rs.0.3 million.
- 2) (PI) Grant for Hosting International Conference: 1st International Conference on “Cyber Security and Digital Forensic (CSDiFO)”, December 2016.
 - a. Higher Education Commission (HEC), Islamabad Pakistan, Pak. Rs.0.706 million.
 - b. National University of Sciences and Technology (NUST), Islamabad, Pakistan, Rs.0.5 million,
- 3) (PI) Grant for Hosting International Conference: 12th International Conference on ‘High-capacity Optical Networks and Enabling/Emerging Technologies (HONET-ICT), December 2015.
 - a. Higher Education Commission (HEC), Islamabad Pakistan, Rs.1.173 million.
 - b. National University of Sciences and Technology (NUST), Islamabad, Pakistan, Rs.0.5 million.
- 4) (PI) Enhancing the Scope of Pakistan Science Abstracts (PSA) to improve Research Infrastructure in Pakistan, Pakistan Science Foundation (<http://www.psf.gov.pk/>), Pakistan, Pak Rs.2 million, May 2012.

- 5) (PI) Funding for Hosting International Conference: 7th ICET-2011, National University of Sciences and Technology (NUST), Islamabad, Pakistan, Pak Rs 1.0 million, March 2011.
- 6) (PI) Grant-in-Aid for Organizing International Conference: 7th ICET-2011, Pakistan Science Foundation, Islamabad, Pakistan, Pak Rs.0.2 million, August 2011.
- 7) (PI) Grant for Hosting International Conference: 7th ICET-2011, Higher Education Commission (HEC), Islamabad Pakistan, Pak Rs.0.586 million, August 2011.
- 8) (PI) Grant for Organizing 7th ICET-2011, National ICT R&D Fund, Islamabad, Pakistan, Pak Rs.0.620 million, August 2011.

Institutional Services Performed @ NUST SEECS, Pakistan

1. Focal Person of NUST Balochistan Campus (NBC) Quetta Pakistan for establishing Computer Science Department, (**January 2019 – till date**).
2. President of the MS IT/CS/IS Admission Committee of SEECS (**July 2019**)
3. Focal Person of MS Data Science Program Working Paper, presented in NUST 52 Academic Council Meeting, held **January 2019**.
4. Acting Senior Head of Department (SHOD) Department of Computing (**06/2018 – 07/2018**)
5. Conference Finance Chair of 15th International Conference on ‘High-capacity Optical Networks and Enabling/Emerging Technologies (HONET-ICT), **October 2018**.
6. President of the MS IT/CS/IS Admission Committee of SEECS (**July 2018**)
7. Member of the MS IT -18 Admission Committee of SEECS (**August 2017**)
8. Member of the MS IT -17 Admission Committee of SEECS (**August 2016**)
9. Conference Finance Chair of 1st International Conference on Cyber Security and Digital Forensics, held on 7-8 **December 2016** at NUST Islamabad, Pakistan.
10. Conference Finance Chair of 12th International Conference on ‘High-capacity Optical Networks and Enabling/Emerging Technologies (HONET-ICT), NUST Islamabad, Pakistan **December 2015**.
11. Patron/Head of the committee for addressing the observations regarding the OBE system in BS SE Program **2016**.
12. Member of Students Grievances Committee of NUST SEECS Sport Gala **2016**.
13. Member of Departmental Technical Review Committee (DTRC) for reviewing Tenure Track System (TTS) cases at SEECS & RCMS Since **2015 – to-date**.
14. Head of Knowledge Group on Information Management (**Fall-2015 – till to date**)
15. Dy. Convener of the Coordination Committee of SEECS Fifth Undergraduate Convocation (**November 2012**).
16. President of the SEECS Research Fund Allocation Committee for the Publication of Papers in International Conferences / Workshops (**November 2011 – August 2012**)
17. Conference Chair of IEEE 7th International Conference on Emerging Technologies, SEECS NUST (**September 5-6, 2011**)
18. Member of the NUST Committee for development of course codes for courses at NUST (**November 2010 - July 2011**)
19. Convener of the Event Management Committee of SEECS Fourth Undergraduate Convocation (**November 2010**).
20. Convener of the Event Management Committee of SEECS Third Undergraduate Convocation (**April 2009**).
21. President of Committee for Monitoring Construction Progress of NUST SEECS New Campus at H-12, Islamabad, Pakistan (**March- September 2008**)
22. President of board of inquiry for four (04) different investigation cases (**2008**)
23. Member of the Undergraduate Final-Year-Project (FYP) Evaluation Review Committee (**June-July 2008**)

24. Member of Committee for Feasibility Report on GHQ C⁴I Database System Development (**Dec. 2008**)
25. President of the Committee for development of Uniform Curriculum for Common Computing Courses of Bachelor Programmes in Engineering and Computer Science at NUST (**May - July 2008**)
26. Member of the MS IT-9 Admission Committee of NIIT (**August 2008**)
27. Prepared a working paper of MSIT curriculum updation for NUST Academic Council Meeting (ACM) held in **2007**
28. Prepared a working paper of BIT curriculum updation for NUST Academic Council Meeting (ACM), held in **2007**
29. President of the Self-Assessment Program Committee of ISE Department of NIIT (**2007**)
30. Convener of the MS IT-8 Admission Committee of NIIT (**August 2007**)
31. Convener of the Event Management Committee of NIIT Second Undergraduate Convocation (**March 2007**)
32. Member of the SEECS Research Fund Allocation Committee for the Publication of Papers in International Conferences / Workshops (**September 2006 – October 2011**)
33. Member of the Curriculum Review Committee (CRC) for Restructuring BE Program from 3½ Years to 4 Year in specialization: Software Engineering and Computer Engineering (**June 2005**).
34. President of the Committee for formulating Grading Criteria for MS-IT Research/Thesis Evaluation (**May-June 2005**).
35. Convener of the Promotional Material Committee of NIIT First Undergraduate Convocation (**March 2005**)
36. President of Committee for the Preparation of NIIT Academic Audit Report (**November-December 2004**)
37. Member of NUST Academic Audit Team for NUST EM&E College, Rawalpindi, Pakistan (**November 2004**)
38. Prepared Master Plan for setting up of Library Facilities for new campus at Sector H-12 Islamabad (**June 2003**)
39. Officer In-charge of MS-IT Thesis (**2003**)
40. Member of Library Purchase Committee (**2003 -2007**)
41. Member of the NIIT Selection Committee for Employment of Technical/Non-Gazetted Staff (**2004 – 2007**)

Professional Training

- 1) **One-day Training for NUST Faculty on Management Skills.** Professional Development Centre, National University of Sciences and Technology (NUST), Islamabad, Pakistan (**January 15, 2020**).
- 2) **Training Workshop on Outcome Based Education (OBE) of NCEAC Evaluators.** NCEAC Higher Education Commission (HEC), Islamabad Pakistan (**March 25, 2019**).
- 3) **Training Workshop on NCEAC Accreditation Process.** NCEAC Higher Education Commission (HEC), Islamabad Pakistan (**February 10, 2017**).
- 4) **Training of Program Evaluators of NCEAC on the Accreditation Process.** NCEAC Higher Education Commission (HEC), Islamabad Pakistan (**June 23 – 24, 2014**).
- 5) **Training of Program Evaluators of NCEAC on the Accreditation Process.** Higher Education Commission (HEC), Islamabad Pakistan (**June 25 – 27, 2012**).
- 6) **Two weeks Faculty Training Program.** School of Electrical Engineering and Computer Science, National University of Sciences and Technology (NUST). (**August 2008**)
- 7) **R&D Management/Development of Research Culture in the University.** National University of Sciences and Technology (NUST), Pakistan (**June 12 -14, 2008**).

- 8) **Post Doctorate Research.** Institute de Recherche en Informatique de Toulouse (IRIT), UMR 5505 CNRS, Universite Paul Sabatier (UPS), Toulouse, France. (*September 2005 – August 2006*)
- 9) **Information Technology Educational Methodology.** Third Country Training Programme in Indonesia (*August 30 – September 29, 2004*)
- 10) **Managing University-Enterprise Partnerships and Income Generation Activities.** The UNESCO-IIEP/ESMU Distance Education Course (*29 March 2004 – 2 July 2004*)
- 11) **Micro Strategy.** NCR Education Centre Islamabad Pakistan (*December 29 – 31, 2003*)
- 12) **Design Calculi & Research in Telecommunication Systems.** United Nations University, International Institute for Software Technology, held at National Post Graduate Institute of Telecommunications & Informatics, Islamabad Pakistan (*October 01–06, 1997*).

Refereed Research Publications

A – Books/Chapters

1. Humaira Farid, Sharifullah Khan. *Exchanging Data from Institutional Repositories to the Semantic Web.* LAMBERT Academic Publishing (LAP), ISBN 3659780278, Sep, 2015.
2. Faria Mehak, Rahat Masood, Yumna Ghazi, Awais Shibli, Sharifullah Khan. *Security Aspects of Database as a Service (DBaaS) in Cloud Computing.* In *Cloud Computing: Challenges, Limitations and R&D Solutions*, (Mahmood, Z. Editor), ISBN: 978-3-319-10529-1, Springer International Publishing, October 2014, 297-324.
3. **Sharifullah Khan.** *Optimization of Continual Queries,* In *Encyclopaedia of Database Technologies and Applications* (L. C. Rivero, J. H. Doorn and V. E. Ferraggine, Editors), pages: 469-471, Chapter 78, ARGENTINA. ISBN: 1591407958, Idea-Group Inc., DOI: 10.4018/978-1-59140-560-3, June 2005.

B – Journal Papers

Under-review in Year - 2020

1. Muhammad Zohaib Fazal, **Sharifullah Khan**, Yasir Nawab, M. Azeem Abbas, Muhammad Shahzad. Prediction of Crimp in Cotton Woven Fabrics by Machine Learning Techniques. Under-review in *Textile Research Journal*, ISSN: 00405175, Sage Publishing. [IF=1.540 (2017)]
2. Naheeda Parveen, **Sharifullah Khan**, Saeed Ullah Shah, Muhammad Azeem Abbas, Muhammad Shahzad Younis, Kinza Waqar CVD Risk Prediction Using Life Style Factors, Under-review in *African Health Sciences*, ISSN: 1680-6905. [IF=0.666 (2017)]
3. Madiha Liaqat Afshan Jamil, Muhammad Majid, **Sharifullah Khan**, Kashif Rajpoot. *Automated Subjective Assessment of Image Retrieval Quality by Regression from Texture Features.* Under-review in *Journal of Information Science (JIS)*, SAGE publishing. ISSN: 0165-5515. [IF=1.939 (2017)]
4. Saher Shafait, Sharifullah Khan, Madiha Liaqat, Hamid Mukhtar. Behaviour Classification and Sentiment Analysis of Political Tweets: A Case Study on General Elections of Pakistan. Under-review in *Journal of Information Science (JIS)*, SAGE publishing. ISSN: 0165-5515. [IF=1.939 (2017)]
5. Maha Zainab, Asad Ali Shah, Sharifullah Khan, Seemab Latif, Safdar Abbas Khan. Framework for Evaluating Credibility of News Shared on Facebook. Under-review in *IEEE ACCESS.* IEEE Publishing.

6. Irfan Ullah, Sharifullah Khan, Muhammad Imran. RweetMiner: Automatic Identification and Categorization of Help Requests on Twitter during Disasters. Under-review in Information Processing Management. Elsevier Publishing.

Years: 2020 - 2016

7. Amnah Siddiqa, Jamil Ahmad, Amjad Ali, Sharifullah Khan. Deciphering the expression dynamics of ANGPTL8 associated regulatory network in insulin resistance using formal modelling approaches. IET System Biology, DOI: 10.1049/iet-syb.2019.0032, Online Oct.23, 2019. Print ISSN 1751-8849, Online ISSN 1751-8857. [IF=1.392 (2018)].
8. Iram Fatima, Burhan Ud Din Abbasi, **Sharifullah Khan**, Majed Al-Saeed, Hafiz Farooq Ahmed, Rafia Mumtaz. Prediction of Postpartum Depression Using Machine Learning Techniques from Social Media Text. Expert Systems, 36(4) e12409, August 2019, Online 26 April 2019 doi.org/10.1111/exsy.12409, Wiley Publishers. ISSN:1468-0394 [IF=1.505 (2018)]
9. Madiha Liaqat; **Sharifullah Khan**; Muhammad Shahzad; Muhammad Majid; Kashif Rajpoot. *Applying Uncertain Frequent Pattern Mining to Improve Ranking of Retrieved Images*. Applied Intelligence, 49(8) pp:2982-3001. <https://doi.org/10.1007/s10489-019-01412-9>. ISSN: 0924-669X/1573-7497, August 2019, Springer Publishers. [IF=2.882 (2018)]
10. Malik Nabeel Ahmed Awan, **Sharifullah Khan**, Khalid Latif, Asad Masood Khattak. *A New Approach to Information Extraction in User-Centric E-Recruitment Systems*. Applied Sciences, 9(14), 2852, July 2019. ISSN: 2076-3417. doi: 10.3390/app9142852 MDPI Publisher. [IF=2.217 (2018)]
11. Rabia Irfan, **Sharifullah Khan**, Muhammad Azeem Abbas and Asad Ali Shah. Determining influential factors and challenges in automatic taxonomy generation: a systematic literature review of techniques 1999-2016. Information Research – An International Electronic Journal, 24(2) paper 822, June 2019. ISSN: 1368-1613. Published by University of Boras, Sweden. [IF=0.799 (2018)]
12. Mehrosh Khalid, **Sharifullah Khan**, Jamil Ahmad, Muhammad Shaheryar. Identification of Self Regulatory Network Motifs in Reverse Engineering Gene Regulatory Networks using Microarray Gene Expression Data. IET Systems Biology. Vol. 13, Issue 2, pp:55-68, April 2019, DOI: 10.1049/iet-syb.2018.5001, ISSN: 1751-8849/ 1751-8857, [IF=1.392 (2018)]
13. Tayyeba Rehman, **Sharifullah Khan**, Gwo-Jen Hwang, Muhammad Azeem Abbas. Automatically solving Two-Variables linear algebraic word problems using text mining. Expert Systems, doi.org/10.1111/exsy.12358. Vol. 36, Issue 2, pp:e12358, April 2019, Wiley Publishers. ISSN:1468-0394 [IF=1.505 (2018)]
14. **Sharifullah Khan**, Gwo-Jen Hwang, Muhammad. Azeem Abbas, Arshia Rehman. Mitigating the Urban-Rural Educational Gap in Developing Countries through Mobile Technology-Supported Learning. British Journal of Educational Technology, DOI: 10.1111/bjet.12692. Vol. 50, No.2, March 2019, pp:735-749, Wiley publishers. ISSN: 1467-8535. [IF=2.588 (2018)].
15. Ghulam Mustafa, Muhammd. Azeem Abbas, Yaser Hafeez, **Sharifullah Khan**, Gwo-Jen Hwang. *Effectiveness of Ontology-Based Learning Content Generation for Preschool Cognitive Skills Learning*. Interactive Learning Environments, Vol 27, Issue 4, pp: 443-457,

April 2019. doi.org/10.1080/10494820.2018.1484772. Taylor & Francis Publisher, PISSN: 1049-4820/ EISSN: 1744-5191 [IF=1.929 (2018)]

16. Umara Noor, Zahid Anwar Asad Waqar Malik, **Sharifullah Khan**, Shahzad Saleem. A machine learning framework for investigating data breaches based on semantic analysis of adversary's attack patterns in threat intelligence repositories. *Future Generation Computer Systems*. Elsevier Vol.95, pp: 467-487. June 2019, DOI: 10.1016/j.future.2019.01.022. ISSN: 0167-739X [IF=5.768 (2018)]
17. Rabia Irfan, **Sharifullah Khan**, Kashif Rajpoot, Ali Mustafa Qamar. TIE algorithm: *A layer over clustering-based taxonomy generation for handling an evolving data*. *Frontiers of Information Technology & Electronic Engineering*, June 2018, Volume 19, Issue 6, pp 763–782, Springer Publishing, doi.org/10.1631/FITEE.1700517. PISSN:2095-9184/EISSN: 2095-9230 [IF=1.033 (2018)]
18. Lozina Shoaib, **Sharifullah Khan**, Muhammad Azeem. Abbas, Ahamd Salman. “*Enabling profound hearing impaired children to articulate words using lip-reading through software application*”, *Journal of the Pakistan Medical Association (JPMA-2017-08-550)* Vol. 68(3), March 2018, pp:432-436. ISSN:0030-9982, DOI: <https://jpma.org.pk/article-details/8608> [IF=0.642 (2018)]
19. Madiha Liaqat, **Sharifullah Khan**, Muhammd Majid. *Image Retrieval Based on Fuzzy Ontology*. *Multimedia Tools and Applications – An International Journal*, Springer Publishers. November 2017, Vol. 76 (21), pp: 22623-22645, ISSN: 1380-7501/1573-7721 DOI 10.1007/s11042-017-4812-9. [IF=2.101 (2018)]
20. Sara Sultana, **Sharifullah Khan**, M. Azim Abbas. “*Predicting Performance of Electrical Engineering Students using Cognitive and Non-cognitive Features for Identification of Potential Dropouts*”. *International Journal of Electrical Engineering Education*, April 2017, Vol. 54(2), pp:105-118. SAGE publishing ISSN: 00207209, DOI: 10.1177/0020720916688484. [IF=0.941 (2018)]
21. Humaira Farid, **Sharifullah Khan**, M. Younas. Javed. “*DSont: DSpace to Ontology Transformation*”. *Journal of Information Science (JIS)*, Vol.42, No.2. pp:179-199, April 2016, SAGE publishing. ISSN: 0165-5515, DOI: 10.1177/0165551515591406. [IF=2.327 (2018)]
22. Naila Karim, Khalid Latif, Zahid Anwar, **Sharifullah Khan** and Amir Hayat. *Storage Schema and Ontology Independent SPARQL to HiveQL Translation*. *Journal of Supercomputing*, Vol. 71, Issue 7, July 2015, pp 2694-2719. ISSN: 0920-8542. Springer, DOI: 10.1007/s11227-015-1411-2. [IF=2.760 (2018)]

Years: 2015 – 2010

23. Saman Iftikhar, **Sharifullah Khan**, Zahid Anwar, Muhammad Kamran. *GenInfoGuard - A Robust and Distortion-free Watermarking Technique for Genetic Data*. *PLOS ONE*, Vol. 10, No. 2, pp. e0117717, February 2015, <https://doi.org/10.1371/journal.pone.0117717>, eISSN: 1932-6203. Public Library of Science (PLOS). [IF=2.776 (2018)]
24. Rabia Irfan, **Sharifullah Khan**, Ali Mustafa Qamar, Peter Bloodsworth. “*Refining Kea++ Automatic Keyphrase Assignment*”. *Journal of Information Science (JIS)*. Vol. 40, No. 4: pp. 446-459, August 2014; SAGE publishing. <https://doi.org/10.1177/0165551514529054>, ISSN: 0165-5515. [IF=2.327 (2018)]
25. **Sharifullah Khan**, Muhammad Safyan; “*Semantic Matching for Informal Hierarchical Ontologies*”, *Journal of KSU Computer and Information Sciences*, Vol. 26, Issue 3: pp. 247-

- 257, September 2014, <https://doi.org/10.1016/j.jksuci.2014.03.010>, ISSN: 1319-1578, Elsevier Publishing.
26. **Sharifullah Khan**, Jibrán Mustafa. “*Effective Semantic Search using Thematic Similarity*”. Journal of KSU Computer and Information Sciences, Vol. 26, Issue 2: pp. 161-169, July 2014, <https://doi.org/10.1016/j.jksuci.2013.10.006>, ISSN: 1319-1578, Elsevier Publishing.
27. Anila Saher Butt, **Sharifullah Khan**. “*Scalability and Performance Evaluation of Semantic Web databases*”. Arabian Journal for Science and Engineering (AJSE), March 2014, Vol. 39, Issue. 3, pp: 1805–1823. ISSN: 1319-8025. Springer, DOI:10.1007/s13369-013-0753-4. [IF=1.518 (2018)]
28. **Sharifullah Khan**, Muhammad Bilal. “*Bitmap Index in Ontology Mapping for Data Integration*”. Arabian Journal for Science and Engineering (AJSE), April 2013, Vol. 38, Issue 4, pp: 859-873, ISSN: 1319-8025. Springer, DOI 10.1007/s13369-012-0373-4. [IF=1.518 (2018)]
29. **Sharifullah Khan**, Iram Fatima, Rabia Irfan, Khalid Latif. “*A Refined Methodology for Automatic Keyphrase Assignment to Digital Libraries*”. Journal of Digital Information Management (JDIM), Vol. 9, No. 2, Page: 55–63, April 2011, ISSN 0972-7272.
30. **Sharifullah Khan** and Kiran Sonia. “*R2O: Relation to Ontology Transformation System*”. Journal of Information & Knowledge Management (JIKM), Vol. 10, No.1, Page: 71–89, March 2011, <https://doi.org/10.1142/S0219649211002845>. ISSN: 0219-6492, World Scientific

C – Conference Papers

Years: 2020 – 2018

1. Owais Rashid, Ali Mustafa Qamar, Sharifullah Khan and Sadaf Ambreen, "Intelligent decision making and planning for call center," In Proceedings of the 2019 International Conference on Computer and Information Sciences (ICCIS), Sakaka, Saudi Arabia, 3-4 April 2019, pp. 1-6. doi: 10.1109/ICCISci.2019.8716472.
2. Rubab Hafeez, **Sharifullah Khan**, Muhammad Azeem Abbas, Fahad Maqbool. Topic based Summarization of Multiple Documents using Semantic Analysis and Clustering. In the proceedings of 15th International Conference on Smart Cities: Improving Quality of Life Using ICT & IoT (HONET-ICT), Islamabad, Pakistan, October 8-10, 2018, pp. 70-74. doi: 10.1109/HONET.2018.8551325

Years: 2017-2015

3. Rida Hafeez, Sharifullah Khan, Irfan Ali Khan, Muhammad Azeem Abbas. Does Preprocessing Really Impact Automatically Generated Taxonomy. In the Proceedings of the 13th International Conference on Emerging Technologies (ICET-2017), pp:1-6, December 26-28, 2017, Islamabad Pakistan. doi: 10.1109/ICET.2017.8281710.
4. Mehrosh Khalid, Sharifullah Khan, Jamil Ahmad and Muhammad Shaheryar. Multivariate Covariance using Principal Component Analysis for Reconstruction of Bidirected Gene Regulatory Networks, In the Proceedings of 15th International Conference on Frontiers of Information Technology (FIT-2017), pp.229-234, Islamabad, Pakistan. December 18-20. doi: 10.1109/FIT.2017.00048.
5. Zoha Sheikh, Hira Masood, Sharifullah Khan, Muhammad Imran. “User-Assisted Information Extraction from Twitter during Emergencies”. In the proceedings of 14th International Conference on Information Systems for Crisis Response and Management (ISCRAM). Albi, France, May 2017.

6. Rabia Irfan and Sharifullah Khan. “*TIE: an algorithm for incrementally evolving taxonomy for text data*”. In the Proceedings of IEEE 15th International Conference on Machine Learning and Applications (ICMLA) 2016. Anaheim, California, USA, pp. 687-692, December 18-20, 2016, doi: 10.1109/ICMLA.2016.0121.
7. Rabia Irfan and Sharifullah Khan. “*Evolving the taxonomy based on hierarchical clustering approach*”. In the Proceedings of 14th International Conference on Frontiers of Information Technology (FIT-2016), pp.81-86, Islamabad, Pakistan. December 19-21, doi: 10.1109/FIT.2016.023.
8. Nabeel Ahmed, Sharifullah Khan, Khalid Latif. “*Job Description Ontology*”. In the Proceedings of 14th International Conference on Frontiers of Information Technology (FIT-2016), pp.217-222, Islamabad, Pakistan. December 19-21, doi: 10.1109/FIT.2016.047.
9. Madiha Liaqat, Sharifullah Khan, Muhammad Majid. “Fuzzy Ontology Based Model for Image Retrieval”. In the Proceedings of 13th International Conference on Mobile Web and Intelligent Information Systems (MobiWis 2016), pp:108-120, August 2016, Austria, doi.org/10.1007/978-3-319-44215-0_9.

Years: 2014-2010

10. Irshad Faiz, Hamid Mukhtar, Ali Mustafa Qamar, Sharifullah Khan. “A Semantic Rules & Reasoning based Approach for Diet and Exercise Management for Diabetics”. 10th International Conference on Emerging Technologies (ICET), p. 94-99, December 1-2, 2014, Islamabad Pakistan, doi: 10.1109/ICET.2014.7021023.
11. Sadaf Khurshid, Sharifullah Khan, Shariq Bashir. “Text-based Intelligent Content Filtering on Social Platforms”. 12th International Conference on Frontiers of Information Technology (FIT), pp.232-237, Dec 17-19, 2014 at Islamabad Pakistan, doi: 10.1109/FIT.2014.51.
12. Humaira Farid, **Sharifullah Khan**, Muhammad Younas. Javed. “Transformation of DSpace Database into Ontology”. In the Proceedings of the 16th International Conference on Asia-Pacific Digital Libraries (ICADL), pp 130-137, Chiang Mai, Thailand, November 2014, doi.org/10.1007/978-3-319-12823-8_14.
13. Rabia Irfan, **Sharifullah Khan**. “Exploiting Hierarchical Semantics in Automatic Keyphrase Assignment”. In the Proceedings of 5th World Engineering Congress (WEC-2013), Islamabad, Pakistan, September 23-25, 2013.
14. Humaira Farid, **Sharifullah Khan**, Muhammad Younad Javed. “Publishing Institutional Repositories Metadata into the Semantic Web”. In the Proceedings of 8th International Conference on Digital Information Management (ICDIM 2013), pp. 79-84 Islamabad, Pakistan, September 10-12, 2013, doi: 10.1109/ICDIM.2013.6694008.
15. Rabia Irfan, **Sharifullah Khan**, Irfan Ali Khan, Muhammad Asif Ali. “KeaKAT – An Online Automatic Keyphrase Assignment Tool”. In the Proceedings of the 10th International Conference on Frontiers of Information Technology (FIT 2012), pp. 30-34 Islamabad, Pakistan, December 17-19, 2012. doi: 10.1109/FIT.2012.14, IEEE Xplore.
16. Amjad Usman, **Sharifullah Khan**. “Exploiting semantics in subject-based searching of DSpace”. In the Proceedings of the 14th International Conference on Asian Digital Libraries (ICADL), pp: 29-38, November 2012, Taipei Taiwan, doi.org/10.1007/978-3-642-34752-8_4.
17. Iqbal Qasim, J. W. Jeong, **Sharifullah Khan**, D. H. Lee. “Automatic Acquisition of Domain Concepts for Ontology Learning using Affinity Propagation”. In the Proceedings of the 7th International Conference on Emerging Technologies (ICET-2011), September 5-6, 2011, Islamabad Pakistan. IEEE Xplore, doi: 10.1109/ICET.2011.6048471.
18. **Sharifullah Khan**, Amjad Usman, Rabia Irfan, Amir Hayat. “DSpace@SECS: Implementing SECS Institutional Repository System”. In the Proceedings of the 7th International Conference on Emerging Technologies (ICET-2011), September 5-6, 2011, Islamabad Pakistan. IEEE Xplore, DOI:10.1109/ICET.2011.6048464.

19. Anila Saher Butt, **Sharifullah Khan**, Khalid Latif. “Comparative Evaluation of Native RDF Stores”. In the Proceedings of the 6th IEEE International Conference on Emerging Technologies (ICET 2010), pp: 321-326, October 18-19, 2010, Islamabad Pakistan. IEEE Xplore.

Years: 2009-2008

20. Iram Fatima, **Sharifullah Khan** and Khalid Latif. “Refinement Methodology for Automatic Document Alignment using Taxonomy in Digital Libraries”. In the proceedings of 3rd IEEE International Conference on Semantic Computing (ICSC2009), pp: 281-286, September 14-16, 2009, Berkeley, CA, USA. IEEE Xplore.
21. Iqbal Qasim, **Sharifullah Khan** and Khalid Latif. “Semantic Mapping between Global and Source Ontology using WordNet”. In the proceedings of 2nd IEEE International Conference on Computer, Control & Communication (IEEE-IC4 2009), pp:1 – 5, February 2009. Karachi, Pakistan. IEEE Xplore.
22. Muhammad Safyan, **Sharifullah Khan**; “Bridging Hierarchical Ontologies for Interoperability and Query Reformulation”, In the proceedings of 2008 International Conference on Advanced Computer Theory and Engineering (ICACTE 2008), pp:832 – 836, December 2008, Phuket Island, Thailand. IEEE Xplore.
23. Asad Masood Khattak, Jibran Mustafa, Nabeel Ahmed, Khalid Latif, **Sharifullah Khan**, “Intelligent Search in Digital Documents”, In the proceedings of 2008 IEEE/WIC/ACM International Conferences on Web Intelligence (WI), pp: 558 – 561, December 2008, Sydney, Australia. IEEE Xplore.
24. Aisha Latif, Muhammad Younas Javed, **Sharifullah Khan**, “Semi-Automated Approach for Converting ERD to Semi-Star Schema”, In the proceedings of 4th IEEE international conference on Emerging Technology (ICET 2008), pp: 264-268, October 2008, Rawalpindi Pakistan. IEEE Xplore.
25. Ammara Aslam, **Sharifullah Khan**, Khalid Latif, “Semantic Based Query Rewriting in Distributed Systems”, In the proceedings of 4th IEEE international conference on Emerging Technology (ICET 2008), pp:292-297, October 2008. Rawalpindi Pakistan. IEEE Xplore.
26. Nabeel Ahmed, **Sharifullah Khan**, Khalid Latif, Asad Masood Khattak, “Extracting Semantic Annotation and their Correlation with Document”. In the proceedings of 4th IEEE international conference on Emerging Technology (ICET 2008), pp: 32-37, October 2008, Rawalpindi Pakistan. IEEE Xplore.
27. Waris Ali, **Sharifullah Khan**, “Ontology Driven Query Expansion in Data Integration”, In the proceedings of 4th International Conference on Semantic, Knowledge and Grid (SKG), pp:57 – 63, December 2008, Beijing China,. IEEE Xplore.
28. Asad Masood Khattak, Khalid Latif, **Sharifullah Khan**, Nabeel Ahmed, “Managing Change History in Web Ontologies”, In the proceedings of 4th International Conference on Semantic, Knowledge and Grid (SKG), pp:347 – 350, December 2008, Beijing China. IEEE Xplore.
29. Ammara Aslam, **Sharifullah Khan**, “Semantic Based Query Rewriting in Data Integration”, In the proceedings of 2nd International Conference on Information and Communication Technologies (ICICT), August 2008, Bannu, Pakistan.
30. Iqbal Qasim, **Sharifullah Khan**, Khalid Latif, “Semantic Mapping between Global and Source Ontologies for Scalable Data Integration System”, In the proceedings of 2nd International Conference on Information and Communication Technologies (ICICT), August 2008, Bannu, Pakistan.
31. Asad Masood Khattak, Khalid Latif, **Sharifullah Khan**, Nabeel Ahmed, “Ontology Recovery and Visualization”, In the proceedings of 4th International Conference on Next Generation Web Services and Practices (NWeSP), pp:90 – 96, October 2008. Seoul, Korea. IEEE Xplore.

32. Kiran Sonia, **Sharifullah Khan**. R2O Transformation System: Relation to Ontology Transformation for Scalable Data Integration. In Proceedings of the 12th International Database Engineering & Applications Symposium (IDEAS'08), pp: 291-295 September 2008, Coimbra, Portugal. IEEE Xplore.
33. Muhammad Bilal, **Sharifullah Khan**. Ontology Driven Relevance Reasoning Architecture for Data Integration Techniques. In Proceedings of 4th IEEE International Conference on Intelligent Systems (IS'08), pp: 22.8 – 22.13, September 2008, Bulgaria. IEEE Xplore.
34. Jibran Mustafa, **Sharifullah Khan**, Khalid Latif. Ontology Based Semantic Information Retrieval. In Proceedings of 4th IEEE International Conference on Intelligent Systems (IS'08), pp: 22.14 – 22.19, September 2008, Varna, Bulgaria. IEEE Xplore.
35. Kiran Sonia, **Sharifullah Khan**. Transforming Relational Model to Source Ontology for Data Integration. In Proceedings of 4th IEEE International Conference on Intelligent Systems (IS'08), pp: 22.2 – 22.7, September 2008, Varna, Bulgaria. IEEE Xplore.
36. Jibran Mustafa, **Sharifullah Khan**, K. Latif. Intelligent Informational Retrieval. In Proceedings of 1st National Conference on Security, Computing, & Communication (SCC), pp: 58-62, May 2008, Kohat, NWFP, Pakistan.

Years: 2007 - 2006

37. Muhammad Bilal, **Sharifullah Khan**. *Ontology-Driven Relevance Reasoning in Data Integration Techniques*. In the proceedings of 5th international workshop on the Frontiers of Information Technology (FIT 2007), Islamabad, Pakistan, December 17-18, 2007.
38. Kiran Sonia, **Sharifullah Khan**. *Building Local Ontology from Database Relations in Data Integration*. In the proceedings of IEEE 3rd international conference on Emerging Technology (ICET 2007), pp: 108 – 113, November 2007. Islamabad, Pakistan, IEEE Xplore.
39. Waris Ali, **Sharifullah Khan**. *Global Query Generation over Diverse Data Sources Using Ontology*. In the proceedings of First national conference on Information and Communication Technologies (NCICT 2007), Bannu, Pakistan, June 2007.
40. Kamran Munir, Muhammad Odeh, Richard McClatchey, **Sharifullah Khan**, Irfan Habib, Semantic Information Retrieval from Distributed Heterogeneous Data Sources, In the proceedings of 4th international workshop on the Frontiers of Information Technology (FIT 2006), Islamabad, Pakistan, December, 2006.
41. **Sharifullah Khan**. *The Role of Ontology in Query Mediation*, In the proceedings of the 4th International Workshop on Multi-Agent Systems and Semantic Grid (MASSG06) Rawalpindi, Pakistan, December 2006.
42. **Sharifullah Khan**, Franck Marvon. *Identifying Relevant Sources in Query Reformulation*. In the proceedings of the 8th International Conference on Information Integration and Web-based Applications & Services (iiWAS2006), pp: 357-366, Yogyakarta, Indonesia, December 2006.
43. **Sharifullah Khan**, Franck Marvon. *Integrating Biomedical Sources on the Internet*. In the proceedings of ISCA 19th International Conference on Parallel and Distributed Computing Systems (PDCS), pp: 165-170, San Francisco, California, USA, September, 2006.
44. **Sharifullah Khan**, Franck Marvon. *Scalable Integration of Biomedical Sources*. In the proceedings of the Workshop on Ontology, Grid and Semantic Integration for Biology (OGSB), July, 2006. Bordeaux, France.
45. Muhammad Asif Iqbal, **Sharifullah Khan**. *Content-based Hierarchical Web Cache*. In the Proceedings International Conference on Computing and Informatics (ICOI). Kuala Lumpur, Malaysia, June 6-8, 2006, IEEE CS.

Years: 2005-2002

46. Junaid Ahmed, **Sharifullah Khan**, Atif Kamal. *An Integrated Framework for Schema Integration in Object Oriented Data Warehousing*. In the proceedings of the 2nd PAK-US International Symposium on High Capacity Optical Networks and Enabling Technologies (HONET), Islamabad, Pakistan, December 19-21, 2005.
47. Marium Sharif Khan, **Sharifullah Khan**. *Distance Education through Weblogs*. In the proceedings of the International Conference on Contemporary Issues in Information Technology in OIC Member States, Islamabad, Pakistan. July 26-27, 2005.
48. **Sharifullah Khan**, Syed Muhammad Nabeel. *OPEMS: Online Peer-to-Peer Expertise Matching System*. In the proceedings the First International Conference on Information and Communication Technology (ICICT 2005), pp: 148-151, Karachi, Pakistan. August 2005, IEEE Xplore.
49. Awais Hamid, **Sharifullah Khan**. *Optimization of Semantic Caches for XML Databases*. In the proceedings the First International Conference on Information and Communication Technology (ICICT 2005), pp: 201-205, Karachi, Pakistan. August 2005. IEEE Xplore.
50. **Sharifullah Khan**, Peter Mott. *A Scalable and dynamic Grouping of Continual Queries*. In Proceedings of the International Conference on Advances in Information Systems (ADVIS), pp: 31-42, Izmir, Turkey, October 2002, Springer.
51. **Sharifullah Khan**, Peter Mott. *LeedsCQ: A Scalable Continual Queries System*. In Proceedings of the International Conference on Database and Expert Systems Applications (DEXA), pp: 607-617, Aix-en Provence, France, September 2002, Springer.

Non-Refereed Publications

A – Invited Talks/Publications

1. **S. Khan**. “Delving into Tweets for Humanitarian Relief in Disasters”. In International Symposium on Advances in Computer and Information Sciences (ISACIS), International Pakistan Research Summit-2017 (IPRS’17), Pakistan Institute of Engineering and Applied Sciences (PIEAS), Nilore, Islamabad, October 24-26, 2017.
2. **S. Khan**. “Evolving the taxonomy based on hierarchical clustering approach”. In 14th International Conference on Frontiers of Information Technology (FIT-2016), Islamabad, Pakistan. December 19-21, 2016.
3. **S. Khan**. “Automatic Taxonomy Generation Techniques-A Survey” In 6th International Conference on Information and Communication Technologies (ICICT’15), Karachi, Pakistan, December 2015.
4. **S. Khan**. “Integrating Institutional Repositories Metadata into the Semantic Web” In 5th International Conference on Information and Communication Technologies (ICICT’13), Karachi, Pakistan, December 2013.
5. **S. Khan**. “Knowledge Sharing with Institutional Repository” In 4th International Conference on Information and Communication Technologies (ICICT’11), Karachi, Pakistan, July 2011.
6. **S. Khan**. “Data Acquisition from Semantically Heterogeneous Biomedical Data Sources on the Internet”. In 1st National Conference on Biotechnology & Microbiology, Bara Gali, Pakistan, July 4-7 2010.
7. **S. Khan**. “Semantic-based Search in Digital Libraries”, In 3rd International Conference on Information and Communication Technologies (ICICT’09), Karachi, Pakistan, August 2009.
8. **S. Khan**. “Refinement Methodology for Taxonomy Driven Automatic Document Alignment” In 2nd Workshop on Data Warehousing and Data Mining, Islamabad, Pakistan, May 2009.
9. **S. Khan**. *Data Acquisition from Semantically Heterogeneous Data Sources*, In 1st Workshop on Data Warehousing and Data Mining, Islamabad, Pakistan, February 2007.

B– Technical Reports

- 1) **S. Khan** and F. Marvon. Ontology-based Query Reformulation for Scalable Data Integration. Technical Report IRIT/RR-2006-07-FR. Institute de Recherche en Informatique de Toulouse (IRIT), UMR 5505 CNRS, Universite Paul Sabatier (UPS), Toulouse, France, June 2006.
- 2) **S. Khan** and F. Marvon. Query Processing in Biomedical Informatics. Technical Report IRIT/RR-2006-07-FR. Institute de Recherche en Informatique de Toulouse (IRIT), UMR 5505 CNRS, Universite Paul Sabatier (UPS), Toulouse, France, March 2006.
- 3) **S. Khan** and P. Mott. LeedsCQ: A Scalable Continual Queries System. Technical Report 2002.03, School of Computing, the University of Leeds, February 2002.
- 4) **S. Khan** and P. Mott. A Scalable and dynamic Grouping of Continual Queries. Technical Report 2001.17, School of Computing, the University of Leeds, September 2001.
- 5) **S. Khan** and P. Mott. Differential Evaluation of Continual Queries. Technical Report 2001.11, School of Computing, the University of Leeds, May 2001.

Courses Taught @ NUST SEecs, Pakistan

- 1) Information Retrieval (PG-Course), **Spring – 2017, 2018, 2019, 2020**
 - 2) Data Mining (PG-Course), **Spring – 2016,**
 - 3) Advanced Database Concepts (PG-Course), **Fall – 2003, 2004, 2006, 2007, 2008, 2009, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019**
 - 4) Databases Systems (UG Course), **Fall – 2015, 2016, 2017, 2018**
 - 5) Distributed Database Systems (PG Course), **Spring – 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015**
 - 6) Advanced Topics in Databases (PG Course), **Summer – 2007, 2010, 2012**
 - 7) Object-Oriented Databases (PG Course), **Spring – 2004**
 - 8) Introduction to Database Systems (UG Course), **Fall – 2004.**
 - 9) Database Design and Implementation(UG Course), **Spring - 2010, Fall-2010, Fall-2011**
 - 10) RDBMS using ORACLE (UG Course), **Fall – 2006, 2008**
 - 11) Data Warehousing (UG Course), **Fall – 2009.**
 - 12) Software Engineering (UG Course), **Spring – 2003, 2004, 2005.**
 - 13) Object-Oriented Software Engineering (UG Course), **Fall – 2003.**
- (Courses details are available on website: <http://skhan.seecs.nust.edu.pk/>)

Thesis Supervision

A – PhD Students (Current)

- 1) Ms. Tehreem Zainab, Research Topic: **Integrating Biological Data over the Web.** (Supervisor).
- 2) Mr. Syed Khurram Jah Rizvi, Research Topic: **Intelligent & Robust Framework for Malware Forensic.** (Co-Supervisor).

B – PhD Students (Previous)

- 1) Mr. Malik Nabeel Ahmed Awan. Research Topic: **Semantic Annotation and Retrieval in E-Recruitment. August 2019** (Supervisor).

- 2) Ms Mehrosh Khalid, Research Topic: **Reconstruction of Qualitative Gene Regulatory Networks. February 2019** (Supervisor).
- 3) Ms. Rabia Irfan, Research Topic: **Evolutionary taxonomy for Unstructured Textual Data. August 2018**, (Supervisor).
- 4) Dr Madiha Liaquat, Research Topic: **Application of Fuzzy Ontology in Image Retrieval. May 2018**, (Supervisor).
- 5) Dr. Lozina Shoaib. Research Topic: **Learning Technologies for Disabilities. February 2018**, (Co-Supervisor).

C – MS Students (Current)

- 1) Ms. Maha Rasheed, MS 2K-17
- 2) Mr. Muhammad Sajjad

D – MS Students (Previous)

- 1) Ms. Mehak Eman. MS IT-17. **Surveillance of Infectious Diseases in Mass Gathering using Social Media Networks. June 2020.**
- 2) Ms. Aymen Tasneem. MS IT-17. **Identifying influential factors affecting pregnancy events using Machine Learning approaches. January 2020.**
- 3) Mr. Muhammad Danish. MS IT-17. **Contextually request tweets classification based on deep features. August 2019.**
- 4) Ms Hallah Shahid Butt, MS-IT-16. Research Topic: **Recommendation System for Preschool Worksheet Generation Using ConceptNet. August 2019.**
- 5) Ms. Sidra Azhar, MS IT-17. Research Topic: **Speech Recognition of Profound Hearing Impaired Children. May 2019.**
- 6) Ms Saher Shafait. MS IT-17. Research Topic: **Sentiment Analysis of Tweets to Identify Political Behavior. February 2019.**
- 7) Mr Burhan Ud Din Abbasi MSCS-. Research Topic: **Prediction of Postpartum Depression using Machine Learning Techniques. December 2018.**
- 8) Ms Rubab Hafeez, MS-IT-16. Research Topic: **Summarization of Opinions from Multiple Documents. November 2018.**
- 9) Ms. Zoha Sheikh, MS-IT-15. Research Topic: **Relevant Information Extraction from Twitter during Time-Critical Situations, August 2018.**
- 10) Ms Hira Masood, MS-IT-15. Research Topic: **GO AHEAD... JUDGE ME: Opinion Mining in Twitter, July 2018**
- 11) Mr Irfanullah MS-CS-05. Research Topic: **Request Identification on Twitter during Mass Convergence, July 2018.**
- 12) Ms Maimoona Muazzam, MS-ITE-03. Research Topic: **Mitigating Rural-Urban Educational Gap through IBL Pedagogy using Web 2.0 technologies, July 2018.**
- 13) Mr Muhammad Zohaib Fazal MS-IT-15. Research Topic: **Prediction of Crimp in Cotton Woven Fabrics by Machine Learning Techniques. April 2018**
- 14) Mr. Irfan Ali Khan, MS-CS-04, Research Topic: **Comparative Analysis of Document vs. Concept based Automatic Taxonomy Generation Process. April 2018**
- 15) Ms. Mariam Ghafar, MS-IT-15, Research Topic: **Cluster Based Analysis of Digital Forensic. January 2018.**
- 16) Ms. Rida Hafiz, MS-IT-15, Research Topic: **Impact of pre-processing on automated taxonomy generation. December 2017.**
- 17) Ms Maliha Zahid, MS-IT-14. Research Topic: **Enhancing DSPACE with TOPIC MAPS. August 2017.**
- 18) Ms. Maliha Rafi, MS-IT-14. Research Topic: **Comparative Analysis of Taxonomy Generation Systems, August 2017.**

- 19) Ms Itrat Wafa Hassan, MS-IT-14. Research Topic: **Keyphrase Assignment Tool, August 2017.**
- 20) Ms Naheeda Parveen, MS-IT-14. Research Topic: **Life Style Factors and their Relationship with Cardiovascular Diseases. May 2017.**
- 21) Ms. Arshia Rehman, MS ITE-02, Research Topic: **Learning Urdu Grammar with Interactive Games. May 2017.**
- 22) Ms. Sara Fatima Asad, MS ITE-02, Research Topic: **Evaluating the impact of Web 2.0 technologies in the course: History of Art. April 2017.**
- 23) Ms. Tayyeba Rehman, MS-IT-15, Research Topic: **Solving algebraic word problems using text mining. March 2017.**
- 24) Ms. Sara Sultana, MS IT- 15, Research Topic: **Predicting Student Performance Using Cognitive and Non-cognitive Information. January 2017.**
- 25) Ms. Aliya Azam, MS ITE-01, Research Topic: **Enhancing Heathy Dietary Habits in Adolescents (12-18 years) through Innovative Technology in Pakistani Community. May 2016.**
- 26) Ms Madiha Butt, MS-CS-2. (Research Topic: **Semantic Search using Thematic Similarity in Digital Documents). February 2016.**
- 27) Mr. Mustafa Khalid Khan, MS-IT-12, (Research Topic: **Customer Life Time Value) August 2015.**
- 28) Mr Umair Anwar, MS-IT-12. (Research Topic: **Student Degree Exchange Standard) August 2015.**
- 29) Ms Bushra Qadir, MS-CS-2. (Research Topic: **Generation of Ontology from Text), June 2015.**
- 30) Ms Sadaf Khurshid, MS-IT-13. (Research Topic: **Text-based Intelligent Content Filtering on Social Platforms), January 2015**
- 31) Ms Maria Abrar, MS-IT-11 (Research Topic: **Adapting RObust Clustering using linKs for Categorical Variables with Inherent Latent Ordinality), August 2014.**
- 32) Ms Erum Afzal, MS-IT-10. (Research Topic: **Context based Storage and Retrieval of Multimedia Contents), September 2013.**
- 33) Ms Humaria Farid. (Research Topic: **Exchanging Data from Institutional Repositories to the Semantic Web) March 2013.**
- 34) Ms Rabia Irfan, MS-IT-10. (Research Topic: **Extended Refinement Methodology for Automatic Keyphrase Assignment), 2012.**
- 35) Mr Amjad Usman, MS-IT-9. (Research Topic: **Exploiting the semantics of taxonomy in subject searching in digital repositories), 2012.**
- 36) Ms Sauleha Durrani, MS-IT-8. (Research Topic: **Multifaceted Searching with Dspace – Digital Library), 2011.**
- 37) Ms Anila Sahar Butt, MS-IT-8. (Research Topic: **Analysis of Semantic Web Databases), 2010.**
- 38) Ms Iram Fatima, MS-IT-7 (Research Topic: ***Refinement Methodology for Automatic Document Alignment using Taxonomy in Digital Libraries), 2009***
- 39) Mr Muhammad Sufyan, MS-IT-7 (Research Topic: ***Bridging Hierarchical Ontologies for Interoperability), 2009***
- 40) Ms Ammara Aslam, MS-IT-6 (Research Topic: ***Semantic-based Query Rewriting in Data Integration), 2009***
- 41) Mr Iqbal Qasim, MS-IT-6 (Research Topic: ***Semantic Mapping between Global and Source Ontologies for Scalable Data Integration System) , 2009***
- 42) Mr Malik Nabeel Ahmed, MS-IT-7 (Research Topic: ***Extracting Semantic Annotations and their Correlation with Document Components) , 2009***

- 43) Mr Muhammad Bilal, MI-ST-6 (Research Topic: *Ontology Driven Relevance Reasoning for Source Selection in Data Integration*), 2008
- 44) Mr Jibran Mustafa, MS-IT-6 (Research Topic: *Semantic-based Information Retrieval in Digital Documents*), 2008
- 45) Ms Kiran Sonia, MS-IT-6 (Research Topic: *Transforming Database Relations to Source Ontology in Data Integration*), 2008
- 46) Mr Adnan Abid, MS-IT-5 (Research Topic: *Scientific Information Retrieval System using Storage Resource Broker*), 2007
- 47) Mr Waris Ali, MS-IT-5 (Research Topic: *Ontology-driven Query Expansion*), 2007
- 48) Awais Hamid, MIT-2 (Research Topic: *Optimization of Semantic Caching for XML databases*), 2005
- 49) Asif Iqbal, MIT-2 (Research Topic: *Content-based Hierarchical Web Cache*), 2005
- 50) Saadia Hammid, MIT-4 (Research Topic: *Mobile Transaction Model that focuses on Movement, Disconnection and Location Behaviour of Data*), 2005
- 51) Muhammad Asghar Khan, MS-CSE, (Military College of Signals) (Research Topic: *Efficient Data Storage for Dynamically Grouped Continual Queries*), 2005
- 52) Ammarah Ubaid, MSc, (Fatima Jinnah Women University) (Research Topic: *Developing A Decentralized and Self-Configuring Peer-to-Peer Information Monitoring System*), 2005

E – BS Students (Current)

- 1) NIL

F – BS Students (Previous)

- 1) Muhammad Amjad, BIT-2 (Project Title: **Grouped Continual Queries System**), 2004.
- 2) Hamid Ali Raja, BIT-2 (Project Title: **Web-based Course Management and Monitoring System**), 2004.
- 3) Haseeb Khattak, BIT-2 (Project Title: **Web-based Publication Database System**), 2004.
- 4) Muhammad Salman, BIT-2 (Project Title: **Decision Support System in OODBMS**), 2004.
- 5) Waqas Abdul Basit, BIT-2 (Project Title: **Update Triggering in Continual Queries System**), 2004, Fail.
- 6) Abdul Rehman, BIT-3 (Project Title: **Query Size Estimation through Statistical Profiles**), 2005.
- 7) Syed Muhammad Nabeel Abid, BIT-3 (Project Title: **Efficient Information Retrieval in Expertise Matching System**), 2005.
- 8) Khawaja Umair Naeem, BIT-3 (Project Title: **Peer-to-Peer Architecture for Expertise Matching System**), 2005.
- 9) Junid Ahmed, BIT-3 (Project Title: **Schema Integration in Object-Oriented Data Warehousing**), 2005.
- 10) Huma Hamid, BIT-3, (Project Title: **Recovery System in Mobile Transaction through Mobile Agents**), 2005.
- 11) Arif Qayyum, BIT-3, (Project Title: **Enabling Dynamic Contents in Database-driven Web-site**), 2005, Fail.
- 12) Marium Sharif Khan, BIT-3 (Project Title: **Distance Learning through Open Source Web Diary**), 2005.
- 13) Irfan Ali Khan, Muhammad Asif Ali .BIT-10 (Project Title: **KeaKAT – Kea++-based Keyphrase Assignment Tool**), 2012
- 14) Ms Sumaira Shamim, Ms Muneza Naeem, Mr Hamza Shahzad. BICSE-8 (Project Title: **Prediction Analysis for Road Safety**). 2013
- 15) Mr Waqas Khalid, Mr Ahsan Ulhaq, Muhammad Shoaib. BIT-11 (Project Title: **Pervasive Anticoagulation Service for Cardiac Health**). 2014

16) Ms. Asbah Toqeer, Mr. Hamza Tayyab, Mr. Syed Naqi Raza Bukhari. BSCS-5 (Project Title: **Virtual Trader**) 2018-2019.

Research & Development Projects

No	Year	Title
23	2017- to-date	Exploiting Social Networks through Machine-learning Analysis
22	2015 – to-date	Facilitating School Learning through Innovative Technology in Local Community
21	2013 – 2019	Extraction and Integration of Bio-informatics data
20	2014 – 2017	Health Awareness through Innovative Technology in Local Community
19	2013 – 2018	Automatic Taxonomy Generation System for Information Retrieval
18	2013 - 2015	Anti-coagulation System for Cardiac Health
17	2010 – 2014	NUST Knowledge Repository
16	2009 – 2014	National Digital Repository for Pakistan Science Abstracts
15	2009 – 2010	Evaluation of Semantic (RDF) Storage Systems
14	2008 – 2009	Alignment of digital documents with Hierarchical Domain Ontology
13	2008 – 2009	Bridging Hierarchical Ontologies
12	2008 – 2009	Semantic Based Mapping and Query Rewriting in Information Integration
11	2008 -2009	Generation and Storage of Context Aware Metadata for Digital Documents
10	2007 -2008	Semantic-based Information Retrieval in Digital Documents
9	2007 -2008	Ontology Driven Relevance Reasoning for Source Selection in Data Integration
8	2007 – 2008	Transforming Database Relations to Source Ontology in Data Integration
7	2006 – 2007	Ontology-driven Query Expansion
6	2005 – 2006	Integrating Biomedical Data Sources on the Internet
5	2004 – 2005	Optimization of Semantic Caching for XML Databases
4	2004 – 2005	Expertise Matching System
3	2004 – 2005	Efficient Data Storage for Dynamically Grouped CQs in XML

		Databases
2	2004 – 2005	Optimization of Web Caching
1	1999 – 2002	Optimization of Continual Queries

(Please see details in attached Annexure or <http://skhan.seecs.nust.edu.pk/projects.php>)

Professional Services

Conference and Workshop Program Committee Memberships

1. Member Program Committee, IEEE 14th international conference on Emerging Technology (ICET 2018), November 2018, Islamabad, Quaid-i-Azam University, Pakistan.
2. Local Finance Chair and Member Program Committee, 15th International conference HONET–ICT-2018, held on 8-10 October 2018, Islamabad, Pakistan.
3. Member Program Committee PhD Symposium in 15th international conference on the Frontiers of Information Technology (FIT 2017), December 2017, Islamabad, Pakistan.
4. Member Program Committee in 15th international conference on the Frontiers of Information Technology (FIT 2017), December 2017, Islamabad, Pakistan.
5. Member Program Committee in International Conference on Communication, Computing and Digital Systems (C-CODE), March, 2017, Islamabad, Pakistan.
6. Member Program Committee PhD Symposium in 14th international conference on the Frontiers of Information Technology (FIT 2016), Islamabad, Pakistan.
7. Finance Chair of 1st International Conference on Cyber Security and Digital Forensics, held on 7-8 December 2016 at NUST Islamabad, Pakistan.
8. Member Program Committee, 2016 international conference on Open and Big Data (OBD - 2016), Austria.
9. Member Program Committee, 2015 National Software Engineering Conference (NSEC), NUST MCS, Islamabad, Pakistan.
10. Local Finance Chair and Member Program Committee, 12th international conference HONET–ICT 2015, Islamabad, Pakistan.
11. Member Program Committee, 13th international conference on the Frontiers of Information Technology (FIT 2015), Islamabad, Pakistan.
12. Member Program Committee, 2015 international conference on Open and Big Data (OBD - 2015), Rome, Italy.
13. Member Program Committee, 12th international conference on the Frontiers of Information Technology (FIT 2014), Islamabad, Pakistan.
14. Member Program Committee, IEEE 16th International Multi Topic Conference (INMIC) 2013, Lahore, Pakistan.
15. Member Program Committee, 11th international conference on the Frontiers of Information Technology (FIT 2013), Islamabad, Pakistan.
16. Member Program Committee, IEEE 5th International Conference on Information and Communication Technologies (ICICT'2013), Karachi, Pakistan.
17. Member Program Committee, 10th international conference on the Frontiers of Information Technology (FIT 2012), Islamabad, Pakistan.
18. **Conference Chair**, IEEE 7th international conference on Emerging Technology (ICET 2011), Islamabad, Pakistan.

19. Member Program Committee, IEEE 7th international conference on Emerging Technology (ICET 2011), Islamabad, Pakistan.
20. Member Program Committee, 9th international conference on the Frontiers of Information Technology (FIT 2011), Islamabad, Pakistan.
21. Member Program Committee, IEEE 4th International Conference on Information and Communication Technologies (ICICT'2011), Karachi, Pakistan.
22. Member Program Committee, IEEE 6th international conference on Emerging Technology (ICET 2010), Islamabad, Pakistan.
23. Member Program Committee, 8th international conference on the Frontiers of Information Technology (FIT 2010), Islamabad, Pakistan.
24. Member Program Committee, International Computer Science and Technology Conference (ICSTC-2009), TRACK: Database Technologies and Applications: Share and Explore (DTA-2009)
25. Member Program Committee, IEEE 3rd International Conference on Information and Communication Technologies (ICICT'09), Karachi, Pakistan.
26. Member Program Committee, IEEE 5th international conference on Emerging Technology (ICET 2009), Islamabad, Pakistan.
27. Member Program Committee, 7th international workshop on the Frontiers of Information Technology (FIT 2009), Islamabad, Pakistan.
28. Member Program Committee, 4th International Workshop on Multi-Agent Systems and Semantic Grid (MASSG06) Rawalpindi, Pakistan,

Specialist/Expert Services

1. Member of the Academic Council of the National University of Computer & Emerging Sciences, Islamabad, Pakistan (Feb. 2016 – Feb.2022).
2. Member of the Faculty Selection Board of the Foundation University, Islamabad, Pakistan (January 2019 – till-to-date).
3. Member of the Faculty Selection Board of the Air University, Islamabad, Pakistan (2017 – till-to-date).
4. Member of the Faculty Selection Board of the National University of Computer & Emerging Sciences, Islamabad, Pakistan (2017 – till-to-date).
5. Member of the Board of Studies of the National University of Computer & Emerging Sciences, Islamabad, Pakistan (2017 – till-to-date).
6. Secretary of the Pakistan Higher Education Commission (HEC) National Curriculum Revision Committee in Computing, 2017.
7. Member of Board of Studies for Computer Science in Balochistan University of Information Technology, Engineering and Management Sciences (BUIITEMS), Quetta, Pakistan.
8. Member of Board of Studies for Computer Science in Sardar Bahadur Khan Women's (SBKWU) University, Quetta, Pakistan.
9. Member of Board of Studies for Computer Science in City University Peshawar, Pakistan.
10. Evaluator of Higher Education Commission (HEC) National Computing Education Accreditation Council (NCEAC) for Computing since 2009.
11. Member of the Pakistan Higher Education Commission (HEC) National Curriculum Revision Committee in Computing, 2013.
12. Member of the Pakistan Higher Education Commission (HEC) National Curriculum Revision Committee in Computing (October 2008 – June 2009)

Journal Editorial Board Member

- NUST Journal of Engineering Science (<http://journals.nust.edu.pk/index.php/njes>)

- Proceedings of the Pakistan Academy of Sciences (<http://www.paspk.org/proceedings/>)
- Pakistan Journal of Computer and Information Systems (PJCIS) (<http://pastic.gov.pk/pjcis.aspx?par=pjcis&cmenu=pjcishome>)

Journal Publication Reviewer

- 1) NUST Journal of Engineering Science
- 2) Proceedings of the Pakistan Academy of Sciences
- 3) Pakistan Journal of Computer and Information Systems (PJCIS)
- 4) Gomal University Journal of Research, Pakistan
- 5) Encyclopaedia of Database Technologies and Applications, 2nd Edition.
- 6) International Journal of Management and Decision Making (IJMDM)
- 7) Computer Standards and Interfaces, Elsevier Publishing
- 8) Knowledge and Information Systems, Springer Publishing
- 9) Journal of Information Science, SAGE Publishing
- 10) IEICE Transactions on Information and Systems, IEICE
- 11) IEEE Access, The Multidisciplinary Open Access Journal
- 12) International Journal of Electrical Engineering Education, SAGE Publishing

External PhD Thesis Examiner

- 1) PhD Thesis Examiner for Dr Riaz Ahmed, CUST, Islamabad, August 2018
- 2) PhD Thesis Examiner for Dr Syeda Saleha Raza, IBA, Karachi, Pakistan, 2015
- 3) PhD Thesis Examiner for Dr Muhammad Imran, IBA, Karachi, Pakistan, 2014
- 4) PhD Thesis Examiner for Dr Wasi Haider Butt, NUST, Islamabad, Pakistan, 2014
- 5) PhD Thesis Examiner for Dr Saman Iftikhar, NUST, Islamabad, Pakistan, 2013
- 6) PhD Thesis Examiner for Dr Quratulain Rajput, IBA, Karachi, Pakistan, 2011

External MS & MSc Thesis Examiner

- 1) University Institute of Information Technology, PMAS Arid Agriculture University Rawalpindi, Pakistan.
- 2) Dept. of Computer Science, National University of Computer & Emerging Sciences, Islamabad Campus, Pakistan
- 3) Dept. Computer Science, Capital University of Science & Technology, Islamabad Pakistan
- 4) Dept. Computer Science, Allama Iqbal Open University, Islamabad, Pakistan
- 5) Dept. Computer Science & Software Engineering, International Islamic University, Islamabad, Pakistan
- 6) Dept. Information Technology, Quaid-e-Azam University Islamabad, Pakistan
- 7) Dept. Computer Science, Quaid-e-Azam University Islamabad, Pakistan
- 8) Institute of Information Technology, Kohat University of Science and Technology (KUST), Kohat Pakistan

Funding Proposal Reviewer

- 1) External Reviewer of Higher Education Commission (HEC) Islamabad for funding proposal.
- 2) External Reviewer of Pakistan Science Foundation (PSF) Islamabad for funding proposal.
- 3) Reviewer for proposal: "Requirement Exploration for Business Process Redesign to Achieve a Paperless University" submitted to AAU Research Directorate, Rawalpindi 2009.

- 4) External Reviewer of IGNITE National Technology Fund (formerly National ICT R&D Fund) Ministry of Information Technology and Telecom, Govt. of Pakistan, Islamabad for funding proposal.
- 5) External Reviewer of Ministry of Science and Technology (MoST), Govt. of Pakistan, Islamabad for evaluating funding proposal.

Active International Collaborations

1. Prof. Dr. Gwo-Jen Hwang, Chair Professor, Dean, College of Liberal Arts and Social Sciences, National Taiwan University of Science and Technology, Taipei , **Taiwan**
2. Dr. Peter Bloodsworth, Department of Computer Science, Oxford University, Oxford ,**UK**
3. Dr. Kashif Rajpoot, School of Computing, University of Birmingham, **UK**
4. Dr. Muhammad Imran, Qatar Computing Research Institute (QCRI), **Qatar**
5. Dr. Ali Mustafa Qamar, Dept. of Computer Science, Qassim University Qassim, **KSA**
6. Dr Hafiz Farooq Ahmad, Dept. of Computer Science, King Faisal University, Al-Ahssa, **KSA**
7. Dr. Muhammad Younas, Department of Computing and Communication Technologies, Oxford Brooks University, Oxford, **UK**