

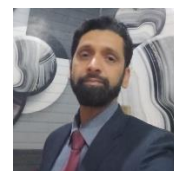
Dr. Abdul Mateen

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<https://scholar.google.com.pk/citations?user=Q8Zpw5MAAAAJ&hl=en>

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EDUCATION BACKGROUND

Dates of attendance (month/year)		Name of Institution	Qualifications obtained, with classification if any	Date of award (month/year)
From	To			
2021	2022	Department of Information & Communication Engineering, Yeungnam University, South Korea	PostDoc	10/2022
2008	2011	International Islamic University, Pakistan (During PhD, performed 06 Months Research at University Putra Malaysia)	PhD Computer Science	03/2014
2005	2007	Department of Computer Science, University of Central Punjab, Pakistan	MS Computer Science	07/2008
1996	1998	GOMAL University, Pakistan	MSc Computer Science	02/1999
1993	1995	GOMAL University, Pakistan	BSc Computer Science	04/1996

WORK EXPERIENCE

Date (Month/Year)		Name of Employment Institution	Responsibilities
From	To		
10/2021	09/2022	Yeungnam University, Information & Comm. Engineering., South Korea	Researcher (PostDoc) at Security Lab - Blockchain and Autonomous Computing - Assisted Master and PhD students of the lab
09/2004	Till date	Federal Urdu University of Arts, Science & Technology, Islamabad Pakistan	Assistant Professor (2004-Till Date) (taught computer science related subjects-Programming Fundamentals, Data Structure & Algorithms, Design & Analysis of Algorithms, Data Mining, Artificial Intelligence, Autonomous Computing, Visual and Web Programming). Supervised more than 30 Graduate and 100 Undergraduate students. Head of Department (2013-16) Member of Academic Council (2014-21) Member of Board of Study (2005-23) Member Dept. Research Comm. (2014-TillDate) Program Coordinator (2005-08)
01/2020	09/2020	Federal Urdu University of Arts, Science & Technology, Islamabad Pakistan	Additional Registrar (Jan 2020 – Sep 2020) (During this period, alongside managing all administrative responsibilities, I successfully spearheaded the establishment of new departments and academic programs. Notably, I prepared the PC-1 for the MIS Department and played a key role in launching innovative degree programs including BS Software Engineering, BS Artificial Intelligence, BS Data Mining, and BS Electronics, thereby strengthening the university's academic portfolio and future growth)

HEC-NRPU RESEARCH PROJECTS

1. Agent Oriented Traffic Management System – Principal

Investigator Approved Amount: 3.8 Million

Duration: 2 Years (2015-18)

Organization: Federal Urdu University of Arts, Science & Technology,
Islamabad Pakistan

Funding Source: National Research Program for Universities (NRPU),
Higher Education Commission of Pakistan

2. Autonomic Workload Manager (PhD Work) – Team

Member Approved Amount: 4.8 Million

Duration: 3 Years (2010-13)

Organization: International Islamic University, Islamabad Pakistan

Funding Source: National Research Program for Universities (NRPU),
Higher Education Commission of Pakistan

RESEARCH PUBLICATIONS

Book Chapters

1. Mateen, A., Khalid, A., Arif, F. (2015). A Sensor-Based Light Signal Controller. Intelligent Information and Database Systems. ACIIDS 2015. Lecture Notes in Computer Science, vol 9011. Springer. https://doi.org/10.1007/978-3-319-15702-3_24
2. Afsar, S., Mateen, A., Arif, F. (2011). An Agent-Based Autonomous Controller for Traffic Management. Communications in Computer and Information Science, Volume 181, Springer Berlin Heidelberg.

Journal Publications

1. Kalsooma, U., Arshad, S., Albarah, A., Siddiqi I., Ullah S., Mateen, A., Amin, F. A big data driven multilevel deep learning framework for predicting terrorist attacks. *Sci Rep* **15**, 23060 (2025) (**W Category - Impact factor of 3.9**). <https://doi.org/10.1038/s41598-025-08201-0>
2. Amin F, Abbasi R, Khan S, Abid MA, Mateen A, de la Torre I, Kuc Castilla A, Garcia Villena E. 2024. Latest advancements and prospects in the next-generation of Internet of Things technologies. *PeerJ Computer Science*, 10:e2434 (**W Category - Impact factor of 2.5**). <https://doi.org/10.7717/peerj-cs.2434>
3. Abbasi, R.; Bashir, A. K.; Mateen, A.; Amin, F.; Ge, Y. and Omar, M. "Efficient Security and Privacy of Lossless Secure Communication for Sensor-based Urban Cities," in *IEEE Sensors Journal*, 2024 (**W Category - Impact factor of 4.5**). doi: [10.1109/JSEN.2023.3305716](https://doi.org/10.1109/JSEN.2023.3305716)
4. Mateen, A.; Khalid, A.; Lee, S.; Nam, S.Y. Challenges, Issues, and Recommendations for Blockchain- and Cloud-Based Automotive Insurance Systems. *Appl. Sci.* 2023, 13, 3561 (**W Category - Impact factor of 2.5**). <https://doi.org/10.3390/app13063561>
5. Hussian, A.; Mateen, A.; Amin, F.; Abid, M.A.; Ullah, S. Health Monitoring Apps: An Evaluation of the Persuasive System Design Model for Human Wellbeing. *Information* 2023, 14, 412 (**W Category - Impact factor of 4.67**). <https://doi.org/10.3390/info14070412>
6. Mateen, A.; Hanif, M.Z.; Khatri, N.; Lee, S.; Nam, S.Y. Smart Roads for Autonomous Accident Detection and Warnings. *Sensors*, 22 (6), 2077, 2022 (**W Category - Impact factor of 3.5**). <https://doi.org/10.3390/s22062077>

7. Khatri, N.; Lee, S.; Mateen, A.; Nam, S. Y. Event Message Clustering Algorithm for Selection of Majority Message in VANETs, IEEE Access, vol. 11, pp. 14621-14635, 2023 **(W Category - Impact factor of 3.6)**. doi: [10.1109/ACCESS.2023.3244327](https://doi.org/10.1109/ACCESS.2023.3244327)
8. Amin, F.; Majeed, A.; Mateen, A.; Abbasi, R. and Hwang, S. O. A Systematic Survey on the Recent Advancements in the Social Internet of Things, IEEE Access, 2022 **(W Category - Impact factor of 3.6)**. doi: [10.1109/ACCESS.2022.3183261](https://doi.org/10.1109/ACCESS.2022.3183261)
9. Saad, M.; Mateen, A.; Adnan, R.; Ullah, S. and Iqbal, J. Usability Evaluation of Mental Health Websites, International Journal of Emergency Mental Health and Human Resilience, 24(7):102-113, 2022. [10.4172/1522-4821.1000544](https://doi.org/10.4172/1522-4821.1000544)
10. Ali, A.; Mateen, A.; Hanan, A.; Amin, F. Advanced Security Framework for Internet of Things (IoT). Technologies 2022, 10 (3), 2:17 **(W Category - Impact factor of 3.6)**. <https://doi.org/10.3390/technologies10030060>
11. Amin, F.; Abbasi, R.; Mateen, A.; Ali Abid, M.; Khan, S. A Step toward Next-Generation Advancements in the Internet of Things Technologies. Sensors 2022, 22, 8072 **(W Category - Impact factor of 3.5)**. <https://doi.org/10.3390/s22208072>
12. Mateen, A.; Nam, S.Y.; Haider, M.A.; Hanan, A. A Dynamic Decision Support System for Selection of Cloud Storage Provider. Appl. Sci. 2021, 11, 2-32 **(W Category - Impact factor of 2.5)**. <https://doi.org/10.3390/app112311296>
13. Abbas, S.; Mateen, A.; Ullah S.; Hanan, A.; Adnan R.; and Arshad S. Permission-based Security Gaps in Android OS. ARPN Journal of Engineering and Applied Sciences, Vol. 16 (14), 2021, Pp. 991-998 **(Y Category - Impact factor of 0.152)**.
14. Yousaf N. Mateen, A. Ullah S., Hanan, A. Adnan R. Sensor Based Vehicle Crowd Sensing in Bad Weather Conditions. ARPN Journal of Engineering and Applied Sciences, Vol. 16 (9), 2021, Pp. 991-998 **(Y Category - Impact factor of 0.152)**.
15. Abbasi, R. Kashif, A. Chen, J. Mateen, A. Piran, J. Amin, F. and Luo, B. Author Classification using Transfer Learning and Predicting Stars in Co-Author Networks. Software: Practice and Experience, Vol. 51 (3), 2020, Pp. 645-669 **(W Category - Impact factor of 3.77)**. <https://doi.org/10.1002/spe.2884>
16. Ghaffar, N. Mateen, A. Ullah S. Adnan R. Javed M. and Rizwan K. Career Prediction of IT Applications by Mining Educational and Alumni Data, ARPN Journal of Engineering and Applied Sciences, Vol. 15 (24), 2020, Pp. 3148-3157 **(Y Category - Impact factor of 0.152)**.
17. Khalid, A.; Javaid, N.; Mateen, A.; Ilahi, M.; Saba, T.; Rehman, A. Enhanced Time-of-Use Electricity Price Rate Using Game Theory. Electronics 2019, 8, 48, Pp.1-26 **(W Category - Impact factor of 2.69)**. <https://doi.org/10.3390/electronics8010048>
18. Ullah, S. Rizwan, K. Ayub, N. Mahmood, N. Arshad, S. Mateen, A. Spatio-Temporal Data Analysis for Human Daily Life Activities. ARPN Journal of Engineering and Applied Sciences, Vol. 15(24), 2020, 3006-3017 **(Y Category - Impact factor of 0.152)**.
19. Mateen, A. Sher, Hanif, Z. Bajwa, T. Autonomous Controllers for Urban Traffic Management, Journal of Traffic and Logistics Engineering, vol. 7 (2), pp. 47-52, 2019 **(Y Category - Impact factor of 0.5)**.
20. Akhtar, A. ; Mateen, A.; Bajwa, M. A.; Ullah, S. Comparative Exploratory Study of Usability Evaluation Techniques for HEIs Websites, ARPN Journal of Engineering and Applied Sciences 16 (10), 1082-1094, 2021 **(Y Category - Impact factor of 0.152)**.
21. Zawar, A. Mateen, A. Ullah, S. Rizwan, K. Lexicon-based Sentiment Analysis for Urdu Language Reviews. ARPN Journal of Engineering and Applied Sciences, Vol. 15 (24), 2020, Pp. 3133-3147 **(Y Category- Impact factor of 0.152)**.

22. Mateen A, Sher S, Rehman A, Hanif Z, Bajwa T, Ashraf M. Dynamic Traffic Control and Management System for Smart Cities. *Advances in Science and Technology Research Journal*. 2018;12 (4):216-225 (**W Category - Impact factor of 1.7**). doi:[10.12913/22998624/100387](https://doi.org/10.12913/22998624/100387)
23. Rauf, A., Hanan Abdullah, A., Mateen, A., & Ashraf, M. Secure Data Access Control with Perception Reasoning. *ADCAIJ-Advances in Distributed Computing and Artificial Intelligence Journal*, Vol. 7(1), pp. 13–28, 2018 (**W Category - Impact factor of 1.28**). <https://doi.org/10.14201/ADCAIJ2018711328>
24. Ashraf M, Shabbir F, Mateen A, Saba T. Usability of Government Websites. *International Journal of Advanced Computer Science and Applications*, Vol. 8 (8), pp. 163-167, 2017 (**W Category - Impact factor of 1.69**).
25. Kamran A, Aawan M, Mateen A, Naeem W, Anwar M. A Comparison of Collaborative Access Control Models. *International Journal of Advanced Computer Science and Applications*, Vol. 8 (3), pp. 290-296, 2017 (**W Category - Impact factor of 1.69**).
26. Kamran A, Anwar M, Mateen A, Naeem W, Asim Y. Rule Adaptation in Collaborative Working Environments using RBAC Model. *International Journal of Advanced Computer Science and Applications*, Vol. 8 (3), pp. 452-457, 2017 (**W Category - Impact factor of 1.69**).
27. Mateen A, Awais M, Mustapha N, Sher M, Ahmad N (2014), Database Workload Management Through CBR and Fuzzy Based Characterization, *Applied Soft Computing*, ISSN: 1568-4946, Vol. 22, 2014, pp. 605-621 (**W Category - Impact factor of 6.6**).
28. Mateen, A., Raza, B., Sher, Awais, M. M., Mustapha, N. Workload management: a technology perspective with respect to self-* characteristics. *Artificial Intelligence Review*, 41, 2014, pp. 463–489 (**W Category - Impact factor of 19.58**).
29. Raza B, Mateen A, Sher M, Awais M M. Self-Prediction of Performance Metrics for the Database Management System Workload. *International Journal of Computer Theory and Engineering*, ISSN: 1793-8201, Vol. 4(2), pp. 198-201, 2012 (**W Category - Impact factor of 1.51**).
30. Raza B., Mateen A., Awais M. M., Sher M. Survey on autonomic workload management: algorithms, techniques and models, *Journal of Computing*, Vol. 3(7), pp. 29-38, 2012 (**W Category - Impact factor of 2.8**).

Conference Publications

1. A. Mateen, K. T. Mahmood, and S. Y. Nam, "DB Workload Management Through Characterization and Idleness Detection," *International Conference on Advanced Communications Technology (ICACT)*, Pyeong Chang, Korea, Feb. 2024.
2. A. Mateen, A. Khalid, and S. Y. Nam, "Management of Traffic Accident Videos using IPFS and Blockchain Technology," *KICS Summer conference*, Pyeongchang, Gangwon-do, Jun. 2022.
3. A. Mateen., M. Z. Hanif, S.Y. Nam, "Autonomous Accidents Detection and Alert for Vehicles", 8th *International Conference on Control, Decision and Information Technologies (CoDIT 2022)*, Turkey, May 17-20, 2022.
4. A. Mateen, S. Narayan, and S. Y. Nam, "Query Processing Framework for Blockchain," *KICS Winter conference*, Pyeongchang, Gangwon-do, Feb. 2022.
5. S. Narayan, A. Mateen, and S. Y. Nam, "Comparison of Machine Learning-Based Anomaly Detection Schemes for CAN Bus Networks," *KICS Winter conference*, Pyeongchang, Gangwon-do, Feb. 2022.

6. S. Narayan, A. Mateen, J. W. Jeong and S. Y. Nam, "Blockchain and IPFS-based Data Storage for VANET," *2022 13th International Conference on Information and Communication Technology Convergence (ICTC)*, Jeju Island, Korea, Republic of, 2022, pp. 1650-1653, doi: [10.1109/ICTC55196.2022.9952736](https://doi.org/10.1109/ICTC55196.2022.9952736)
7. F. Amin, W. -K. Lee, A. Mateen and S. O. Hwang, "Integration of Network science approaches and Data Science tools in the Internet of Things based Technologies," *2021 IEEE Region 10 Symposium (TENSYP)*, 2021, pp. 1-6, doi: [10.1109/TENSYP52854.2021.9550992](https://doi.org/10.1109/TENSYP52854.2021.9550992)
8. A. Mateen, S. Sher, A. Rehman, Z. Hanif, T. Akhter, "Autonomous Controllers for Urban Traffic Management", *2nd International Conference on Intelligent Manufacturing and Automation*, 2018.
9. A. Khalid, N. Javaid, A. Mateen, M. H. Rahim, "Smart Homes Coalition Based on Game Theory," *2018 IEEE 32nd International Conference on Advanced Information Networking and Applications (AINA)*, 2018, pp. 846-849. doi: [10.1109/AINA.2018.00125](https://doi.org/10.1109/AINA.2018.00125)
10. A. Mateen, A. Khalid, L. Khan, S. Majeed, T. Akhtar, "Vigorous Algorithms to Control Urban Vehicle Traffic", *15th IEEE/ ACIS International Conference on Computer and Information Science*, Japan, 2016.
11. A. Mateen, B. Raza, M. M. Awais, M. Sher (2011). Selection of the Best DBMS: A Fuzzy based Multi-objective Decision Making Approach. In *Proceedings of the International MultiConference of Engineers and Computer Scientists (IMECS 2011)* (pp. 287–292). International Association of Engineers and Computer Scientists.
12. A. Mateen, B. Raza, M. Sher, M. M. Awais and T. Hussain, "Evolution of autonomic Database Management Systems," *2nd International Conference on Computer and Automation Engineering (ICCAE)*, 2010, pp. 33-37, doi: [10.1109/ICCAE.2010.5452007](https://doi.org/10.1109/ICCAE.2010.5452007)
13. A. Mateen, B. Raza, T. Hussain and M. M. Awais, "Autonomicity in Universal Database DB2," *8th IEEE/ACIS International Conference on Computer & Information Science*, 2009, ISBN 978-0-7695-3641-5, pp. 445-450, doi: [10.1109/ICIS.2009.203](https://doi.org/10.1109/ICIS.2009.203)
14. A. Mateen, B. Raza, T. Hussain and M. M. Awais, "Autonomic Computing in SQL Server," *7th IEEE/ACIS International Conference on Computer and Information Science*, 2008, pp. 113-118, doi: [10.1109/ICIS.2008.111](https://doi.org/10.1109/ICIS.2008.111)
15. B. Raza, A. Mateen, M. Sher, M. M. Awais and T. Hussain, "Autonomic View of Query Optimizers in Database Management Systems," *2010 Eighth ACIS International Conference on Software Engineering Research, Management and Applications*, Montreal, QC, Canada, 2010, pp. 3-8, doi: [10.1109/SERA.2010.11](https://doi.org/10.1109/SERA.2010.11)
16. B. Raza, A. Mateen, M. Sher, M. M. Awais and T. Hussain, "Autonomicity in Oracle Database Management System," *2010 International Conference on Data Storage and Data Engineering*, Bangalore, India, 2010, pp. 296-300, doi: [10.1109/DSDE.2010.72](https://doi.org/10.1109/DSDE.2010.72)
17. B. Raza, A. Mateen, T. Hussain and M. M. Awais, "Autonomic Success in Database Management Systems," *2009 Eighth IEEE/ACIS International Conference on Computer and Information Science*, Shanghai, China, 2009, pp. 439-444, doi: [10.1109/ICIS.2009.202](https://doi.org/10.1109/ICIS.2009.202)
18. A. Mateen and B. Raza, "Autonomic Computing Vision", *Doctoral Symposium on Research in Computer Science*, University of Central Punjab, Lahore, Pakistan, 2008.
19. Raza B, and Mateen A, "Evolution of Autonomic Database Management Systems", *Doctoral Symposium on Research in Computer Science*, University of Central Punjab, Lahore, Pakistan, 2008.

Evaluator (MS and PhD Thesis/ Defense)

1. National University of Modern Languages, Islamabad, Pakistan
2. Karakoram International University, Pakistan
3. Gomal University, Pakistan

Editor/ Reviewer (Journal and Conference)

1. Transactions on Database Systems
2. Journal of Computer Science and Technology
3. International Journal of Information Technology and Decision Making (IJITDM)
4. Journal of Information Assurance and Security
5. Journal of Computer Science and Technology- Robotics Applications
6. IEEE 2nd International Conference on Electrical Engineering, Computer and Information Technology (ICEECIT 2024)
7. IEEE High Performance Computing and Communications (IEEE HPCC'2024)
8. Digital Enterprise and Information Systems conference London (DEIS 2011)
9. Int. Conference on Informatics Engineering & Information Science (ICIEIS 2011)
10. IEEE Conference on Open Systems (ICOS 2011)
11. 2nd Int. Conference on Software Engineering & Computer Systems (ICSECS 2011)

PROFESSIONAL MEMBERSHIP

S No.	Name of the Professional Body	Date of award
1.	The Korean Institute of Communications & Information Sciences	2021
2.	Asian Council of Science Editors	2021
3.	International Association for Engineers (IAEng)	2012
4.	International Association of Computer Science & Information Technology	2010
5.	International Association for Computer & Information Science	2009

List of Graduate Research Students (Role: Principal Supervisor)

- 1) Malik Ahsan Ali, MSCS, Completion Date: 10th Sep, 2017 **(Journal Publication)**
Title: Comparison of Collaborative Role Based Access Control Models
- 2) Muhammad Anwar, MSCS, Completion Date: 06th June, 2019 **(Journal Publication)**
Title: Privacy-Preserving using Rule Adaptation in Collaborative Working Environments
- 3) Anam Yousaf, MSCS, Completion Date: 15th Apr 2020
Title: Efficient Identification of Spam Reviews
- 4) Abdul Hameed, Degree: MSCS, Completion Date: 2020
Title: SQL Query Optimization in Big Data
- 5) Ehsan Ali, MSCS, Completion Date: 2020
Title: A Modified Particle Swarm Optimization (M-PSO)
- 6) Adnan Ansari, MSCS, Completion Date: 2021
Title: Selection of Quality Features for Functional Features in Requirements Prioritization: A Taguchi Approach
- 7) Syed Saqlain, MSCS, Completion Date: 2021 **(Journal Publication)**
Title: Permission Based Security Gaps in Android OS
- 8) Abid Ali, MSCS, Completion Date: 2021 **(Journal Publication)**
Title: Propose Security Framework for IoT in terms of Data Confidentiality, Availability and Integrity

- 9) Sabeen Sher, MSCS, Completion Date: 2021
Title: Sentiment Mining of Hotel Reviews through Machine Learning
- 10) Muhammad Zahid Hanif, MSCS, Completion Date: 2022 (**Conference and Journal Publication**)
Title: Autonomous Accident Detection and ALert for Non-Equipped Vehicle
- 11) Taj Muhammad, MSCS, Completion Date: 2022
Title: M-Health Apps: A Usable Smartphone app Interface for HealthCare
- 12) Asif Hussain, MSCS, Completion Date: 2022 (**Journal Publication**)
Title: Improved Persuasive System Design Model of Health Monitoring Apps for Human Well-Being
- 13) Saira Batool, MSCS, Completion Date: 2022
Title: Enhanced Learnable Automated Teller Machine (ATM) in Pakistan
- 14) Muhammad Saad, MSCS, Completion Date: 2022 (**Journal Publication**)
Title: A Usable User Interface Design for Health Care Websites
- 15) Iffat Safeer, MSCS, Completion Date: 2022
Title: Impact of Social Network on Students using K-Mean
- 16) Nadia Ghaffar, MSCS, Completion Date: 2022 (**Journal Publication**)
Title: Future Prediction of IT Students by Mining Educational and Alumni Data
- 17) Asim Mansha, MSCS, Completion Date: 2022
Title: Effective Recommendation System Using Different Data Mining Techniques
- 18) Basharat Ullah, MSCS, Completion Date: 2023
Title: Improving the Data Security of IoTs through Encryption Algorithms
- 19) Noamn Yousaf, MSCS, Completion Date: 2023 (**Journal Publication**)
Title: Sensors Based Vehicle crowd sensing in Bad Weather Conditions
- 20) Muhammad Ali Haidar, MSCS, Completion Date: 2023 (**Journal Publication**)
Title: Application Migration towards Cloud: A Decision Support System of Ranking and Comparing Cloud Services
- 21) Muhammad Ijaz, MSCS, Completion Date: 2023
Title: Difference Detection of Use Case Models in Model-based Software Configuration Management
- 22) Muhammad Imran Faisal, MSCS, Completion Date: 2024
Title: Empirical Investigation of Ensemble learners to improve the performance of Software Fault Prediction

Session Chair & Invited Talks

1. "Autonomous Computing and related Research Projects" NUML Faisal Abad Campus. 2025.
2. "AI and Machine Learning in Health Monitoring" Gomal university. 2024.
3. Abdul Mateen, "Autonomic Computing in DBMSs" University Putra Malaysia. 2012.
4. Session chair at 2nd International Conference on Computer and Automation Engineering, Singapore, 26-28 Feb 2010.
5. Session chair at 2nd International Conference on Intelligent Network and Computing, Malaysia, 26-28 Nov, 2010 (Two sessions).

Conference Paper Presentations

1. Presented the research paper at KICS Summer Conference, South Korea, Feb 2022.
2. Presented the research paper at KICS Winter Conference, South Korea, June 2022.
3. Presented the research paper at the 2nd International Conference on Intelligent Manufacturing and Automation, Malaysia, 2018.
4. Presented the research paper "An Agent-Based Autonomous Controller for Traffic

- Management” at 2nd International Conference (ICSECS) Malaysia, 2011
5. Presented the paper “Vector Shape Classification and Z Indexing” at The 2nd International Conference on Intelligent Network and Computing, Malaysia, 26-28 November, 2010.
 6. Presented the paper “Evolution of Autonomic Database Management Systems” at 2nd Int. Conference on Computer and Automation Engineering, Singapore, 2010.
 7. Presented the paper “Autonomicity in Universal Database DB2” in 8th IEEE Int. Conference on Computer and Information Science (ICIS 09), Shanghai, China
 8. Presented the paper “Autonomic Computing Vision” at the Doctoral Symposium on Research in Computer Science, University of Central Punjab, Pakistan, 2008.

Training/ Workshop/Seminar

1. 6 Month Computer Diploma from Industrial Development Bank of Pakistan
2. 6 Month Training on GIS & Satellite Technology from SUPARCO Pakistan
3. Research Ethics for Participant Research (Science & Engineering)
4. 3 Days Workshop

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References

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4. Dr. Seung Yeob Nam
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