

Dr. Abdul Mateen

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

<https://www.researchgate.net/profile/Abdul-Mateen-4>



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 | Yeungnam University, South Korea | PostDoc | 30/09/2022 |
| 2008 | 2011 | International Islamic University, Islamabad Pakistan (QS Asian University Rankings 2018 through QAD and was ranked 351-400 among Asian Universities) 06 Months PhD Research at University Putra Malaysia, Malaysia (ranked #143 in QS Global World Rankings) | PhD Computer Science | 03/2014 |
| 2005 | 2007 | 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 (in descending chronological order)

| Dates (date/month/year) | | Name of Employment Institution | Responsibilities |
|----------------------------|------------|---|---|
| From | To | | |
| 01/10/2021 | 30/09/2022 | Yeungnam University, Department of Information & Communication Engineering, Gyeongsan, Gyeongbuk 38541, Republic of Korea | Researcher (PostDoc) - Research on the Blockchain and Autonomous Computing |
| 10/09/2004 | Till date | Federal Urdu University of Arts, Science & Technology, Islamabad Pakistan | Assistant Professor (2004-Till Date) (taught various computer related subjects like Programming Fundamentals, Data Structure & Algorithms, Design & Analysis of Algorithms, Data Mining, AI and Autonomous Computing, Visual & Web Programming) Supervised 30 MS students and more than 100 Undergraduate students Head of Department (2013-16) Member of Academic Council (2014-2021) Member of Board of Study (2005 - Till Date) Member of Dept. Research Committee (2014 -Till Date) Coordinator (2005-2008) |
| 07/01/2020 | 22/09/2020 | Federal Urdu University of Arts, Science & Technology, Islamabad Pakistan | Additional Registrar (Jan 2020 – Sep 2020) (During this period, with handling all administrative responsibilities, I worked on to start new departments and programs such as PC-1 for establishment of MIS department, BS Software Engineering, BS Artificial Intelligence, BS Data Mining and BS Electronics) |
| 03/2002 | 09/09/2004 | Pakistan Telecommunication Limited, Islamabad Pakistan | Analyst Programmer |
| 02/2001 | 03/2002 | COMSATS Institute of IT, Islamabad Pakistan | Lecture (Taught Programming Languages, Computer and Computing, Algorithms and Data Structures) |
| 04/1999 | 02/2001 | SUPARCO, Islamabad Pakistan | Scientific Officer |

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

Other RESEARCH PROJECTS

- 1. Intelligent Tutor for Graduate Students – Dr. Benjamin, Bielefeld University, Germany**
(in progress)
- 2. Blockchain based Auto Insurance System – Dr. Seung Yeob Nam, Professor, Yeungnam University, South Korea (in progress)**
- 3. IQ Builder and Tester (Completed)**
- 4. Code Generator and Tester (in progress)**
- 5. Chatbot for ZIHS (in progress)**

RESEARCH PUBLICATIONS

Book Chapters

- 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
- 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

- 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. <https://doi.org/10.3390/app13063561>
- 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, doi: 10.1109/JSEN.2023.3305716.
- 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, **Impact factor 8.3.**
- 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.
- 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. <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* **2022**, *22* (6), 2077, **Impact factor 3.576**. <https://doi.org/10.3390/s22062077>
7. N. Khatri, S. Lee, A. Mateen and S. Y. Nam, "Event Message Clustering Algorithm for Selection of Majority Message in VANETs," in *IEEE Access*, vol. 11, pp. 14621-14635, **2023**, **Impact factor 3.367**. doi: 10.1109/ACCESS.2023.3244327.
8. F. Amin, A. Majeed, A. Mateen, R. Abbasi and S. O. Hwang, "A Systematic Survey on the Recent Advancements in the Social Internet of Things," *IEEE Access*, **2022**, **Impact factor 3.4**. doi: 10.1109/ACCESS.2022.3183261.
9. Ali, A.; Mateen, A.; Hanan, A.; Amin, F. Advanced Security Framework for Internet of Things (IoT). *Technologies* **2022**, *10*, 60. <https://doi.org/10.3390/technologies10030060>
10. 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*, **Impact factor 3.576**. 8072. <https://doi.org/10.3390/s22208072>
11. 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*, 11296, **Impact Factor 2.84**. <https://doi.org/10.3390/app112311296>
12. Abbas, S. Mateen, A. Ullah S. Hanan, A. Adnan R. Arshad S. Permission-based Security Gaps in Android OS. *ARNP Journal of Engineering and Applied Sciences*, Vol. 16 (14), **2021**, Pp. 991-998.
13. Yousaf N. Mateen, A. Ullah S., Hanan, A. Adnan R. Sensor Based Vehicle Crowd Sensing in Bad Weather Conditions. *ARNP Journal of Engineering and Applied Sciences*, Vol. 16 (9), **2021**, Pp. 991-998.
14. Zawar, A. Mateen, A. Ullah, S. Rizwan, K. Lexicon-based Sentiment Analysis for Urdu Language Reviews. *ARNP Journal of Engineering and Applied Sciences*, Vol. 15 (24), **2020**, Pp. 3133-3147.
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, **Impact factor 3.2**.
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, *ARNP Journal of Engineering and Applied Sciences*, Vol. 15 (24), **2020**, Pp. 3148-3157.
17. Ullah, S. Rizwan, K. Ayub, N. Mahmood, N. Arshad, S. Mateen, A. Spatio-Temporal Data Analysis for Human Daily Life Activities. *ARNP Journal of Engineering and Applied Sciences*, Vol. 15(24), **2020**, 3006-3017.
18. 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. <https://doi.org/10.3390/electronics8010048>, **Impact factor 2.7**.
19. Mateen, A. Sher, Hanif, Z. Bajwa, T. Autonomous Controllers for Urban Traffic Management, *Journal of Traffic and Logistics Engineering*, vol. 7 (2), December **2019**, pp. 47-52.
20. 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. doi:10.12913/22998624/100387.
21. 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), **2018**, pp. 13–28. <https://doi.org/10.14201/ADCAIJ2018711328>
22. Ashraf M, Shabbir F, Mateen A, Saba T. Usability of Government Websites. *International Journal of Advanced Computer Science and Applications*, Vol. 8 (8), **2017**, pp. 163-167.

23. 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), **2017**, pp. 290-296.
24. 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*, **2017**, Vol. 8 (3), pp. 452-457.
25. 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), 2012, pp. 198-201.
26. Raza B., Mateen A., Awais M. M., Sher M. Survey on autonomic workload management: algorithms, techniques and models, *Journal of Computing*, Vol. 3(7), **2012**, pp. 29-38.

Conference Publications

1. 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), Korea, 2022, pp. 1650-1653, doi: 10.1109/ICTC55196.2022.9952736.
2. Mateen, A.; Hanif, M.Z.; Nam, S.Y. "Autonomous Accidents Detection and Alert for Vehicles", 8th International Conference on Control, Decision and Information Technologies (CoDIT 2022), Turkey, May 17-20, 2022.
3. 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.
4. Mateen A, Sher S, Rehman A, Hanif Z, Akhter T, "Autonomous Controllers for Urban Traffic Management, 2nd International Conference on Intelligent Manufacturing and Automation, 2018.
5. 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.
6. Mateen A., Khalid A., Khan L., Majeed S., Akhtar T. "Vigorous Algorithms to Control Urban Vehicle Traffic", 15th IEEE/ ACIS International Conference on Computer and Information Science, Japan, 2016.
7. K Adia, J Nadeem, M Abdul, K Bilal, A Zahoor, Q Umar, "Demand Side Management Using Hybrid Bacterial Foraging and Genetic Algorithm Optimization Techniques", 10th International Conference on Complex, Intelligent, and Software Intensive Systems, Japan. IEEE Computer Society, 2016, pp. 494-502.
8. Mateen A, Raza B, Awais M, Sher M, "Selection of the best DBMS: A Fuzzy Based Multi-Objective Decision Making Approach", IAENG International Conference on Computer Science, 2011.
9. 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.
10. 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.

11. 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.
12. Raza B, Mateen A, Awais M, Hussain T, "Autonomic View of Query Optimizers in Database Management Systems", Software Engineering Research, Management & Applications, Springer, 2010.
13. Raza B, Mateen A, Sher M, Awais M, Hussain T, "Autonomicity in Oracle Databases Management System", International Conference on Data Storage and Data Engineering (DSDE 2010).
14. B. Raza, A. Mateen, T. Hussain and M. M. Awais, "Autonomic Success in Database Management Systems," 8th IEEE/ACIS International Conference on Computer & Information Science, 2009, ISBN 978-0-7695-3641-5, pp. 439-444, doi: 10.1109/ICIS.2009.202.
15. Mateen A, Raza B, "Autonomic Computing Vision", Doctoral Symposium on Research in Computer Science (DSCS 08), University of Central Punjab, Lahore, Pakistan, 2008.
16. Raza B, Mateen A, "Evolution of Autonomic Database Management Systems", Doctoral Symposium on Research in Computer Science (DSCS 08), University of Central Punjab, Lahore, Pakistan, 2008.

List of Research Students (Role: Principal Supervisor)

- 1) Malik Ahsan Ali, MSCS, Completion Date: 10th Sep, 2017.
Title: Comparison of Collaborative Role Based Access Control Models
- 2) Muhammad Anwar, MSCS, Completion Date: 06th June, 2019
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) Student Name: Abdul Hameed, Degree: MSCS, Completion Date: 2020
Title: SQL Query Optimization in Big Data
- 5) Student Name: Ehsan Ali, MSCS, Completion Date: 2020
Title: A Modified Particle Swarm Optimization (M-PSO)
- 6) Student Name: 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,
Title: Permission Based Security Gaps in Android OS
- 8) Abid Ali, MSCS, Completion Date: 2021
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
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
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
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
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
Title: Sensors Based Vehicle crowd sensing in Bad Weather Conditions
- 20) Umm-e-Habiba, MSCS, Completion Date: In Progress
Title: An Efficient Graphical User Interface for Automated Teller Machine
- 21) Muhammad Ali Haidar, MSCS, Completion Date: 2023
Title: Application Migration towards Cloud: A Decision Support System of Ranking and Comparing Cloud Services
- 22) Muhammad Ijaz, MSCS, Completion Date: 2023
Title: Difference Detection of Use Case Models in Model-based Software Configuration Management
- 23) Muhammad Imran Faisal, MSCS, Completion Date: 2023
Title: Empirical Investigation of Ensemble learners to improve the performance of Software Fault Prediction

CONFERENCE CHAIR

1. Session Chair - 2nd International Conference on Computer and Automation Engineering, Singapore, 26-28 Feb 2010.
2. Session Chair - Two sessions of the 2nd International Conference on Intelligent Network and Computing, Malaysia, 26-28 Nov, 2010.

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.

PROFESSIONAL MEMBERSHIP

| Name of professional body | Name of award | Date of award |
|---|---------------|---------------|
| The Korean Institute of Communications and Information Sciences (KICS) | Member | 2021 |
| International Association for Engineers (IAEng) | Member | 2012 |
| International Association of Computer Science and Information Technology (IACSIT) | Member | 2010 |
| International Association for Computer and Information Science (ACIS) | Member | 2009 |

Training/ Workshop/Seminar

1. 6 Month Computer Diploma from Industrial Development Bank of Pakistan
2. 6 Month Training on GIS & Satellite Technology from SUPARCO

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Mohrian Near Bahria Enclave Road- 5B, Islamabad, Pakistan

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References

1. Dr. Mian Muhammad Awais

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2. Dr. Muazzam Ali Khan

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3. Dr. Abdul Rauf

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4. Dr. Norwatti Mutapha

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