

## **Dr. Adeel Anjum(HEC approved PHD supervisor)**

(adeelanjum2001@hotmail.com, adeel.anjum@cern.ch)

(Google Scholar: <https://scholar.google.com/citations?user=bGFAOmoAAAAJ&hl=en>)

(Researchgate: [https://www.researchgate.net/profile/Adeel\\_Anjum4/research](https://www.researchgate.net/profile/Adeel_Anjum4/research))

Ph. D. in Information Security (2013),  
Ecole Polytechnique, University of Nantes, France.

*Dissertation Title: Towards Privacy-Preserving Publication of Continuous and Dynamic Data: Spatial Indexing and Bucketization Approaches*

### ✓ **Research Interests**

- Data privacy and security, Differential privacy, Privacy in Social Networks, Data Management, Information Retrieval, Data Mining, Algorithm analysis, Databases

### ✓ **Education**

- Ph. D. in Information Security from University of Nantes, France (2010-2013).
- MS (Information Retrieval) from University Paris Sud (2008-2009)
- MSC (CS) from Quaid-i-Azam University Islamabad (2002-2004)

### ✓ **Academic Experience**

- COMSATS Institute of IT, *Assistant Professor*, January 2014 – present (**5 years**)
- Foundation University Islamabad, Rawalpindi Campus, September 2013 – January 2014 (**6 months**)

### ✓ **Professional Experience**

- IT Executive 2006-2008 in INSTAPHONE Digital. Major Tools and Techs include .NET, SQL SERVER and ORACLE 9i (**2 Years**)
- Software Engineer 2004-2006 at Askari Information Systems Islamabad Pakistan. The Tools and Technologies used at Electronic Solutions are PHP and My SQL, ASP.NET, SQL SERVER Server, and Crystal **Reports (2 years)**

### ✓ **Courses Taught**

- Database Systems (Undergrad)
- Distributed Databases (Undergrad)
- Advanced Software Engineering (Undergrad)
- Introduction to Programming with C++ (Undergrad)
- Advance Database Systems [Undergrad]
- Software Engineering[Undergrad]
- Trusted Systems [Graduate]
- Data Privacy[Graduate]
- Data mining and Machine Learning [Graduate]
- Computer Security [Graduate]

### ✓ **Supervision/Co-supervision**

- Total of 04 PhD students (Continue...)
- Total of 30+ MS Students supervised (Most of the work is published in reputed journals and conferences)
- Total of 50+ BS students supervised for Final Year Project

### ✓ **Trainings**

1. SAP certified train the trainer

### ✓ **Summary of Technical Skills**

2. Languages: Z, SMT, C/C++, C#, Asp.net, Python (Beginner Level), Matlab, R
3. Frameworks: .Net,.NET Compact Framework
4. Databases: MS SQL Server, MySQL, MS Access
5. Web development: HTML, CSS, JavaScript, PHP

### ✓ **Funded Projects**

- Early skin cancer detection using handheld devices (CoPI) King Fahd university Saudi Arabia

✓ **Honors and Awards**

- HEC scholarship for MS leading to PHD
- Research Fellowship from EGIDE France

✓ **Notable Publications (Cumulative IF= 70+)**

1. Alam, Masoom, Saif U. R. Malik, Javed, Qaisar, Khan, Abid, Khan, Shamaila Bisma, **Anjum, Adeel**, Javed, Nadeem, Akhuzada, Adnan, Khan, Muhammad Khurram, "Formal modeling and verification of security controls for multimedia systems in the cloud," *Multimedia Tools and Applications*, July 2017, DOI=10.1007/s11042-017-4853-0. (<http://dx.doi.org/10.1007/s11042-017-4853-0>)
2. Mobashirah Nasir, **Adeel Anjum**, Umar Manzoor, Mohammed A. Balubaid, Mansoor Ahmed, Abid Khan, Naveed Ahmad, Saif U. R. Malik, and Masoom Alam, "Privacy Preservation in Skewed Data Using Frequency Distribution and Weightage (FDW)," *Journal of Medical Imaging Health*, Volume 7, No. 06, pp. 1346–1357, (2017).
3. Sidra tul Muntaha, Abid Khan, Umar Manzoor, Kinza Sarwar, Mansoor Ahmed, Mouzna Tahir, **Adeel Anjum**, Saif U. R. Malik, Masoom Alam, Nadeem Javaid, and Mohammed A. Balubaid, "Towards Preserving Privacy of Outsourced Genomic Data Over the Cloud," *Journal of Medical Imaging Health*, Volume 7, No. 06, pp. 1475–1482, (2017).
4. Syed Atif Moqurrab, **Adeel Anjum**, Umar Manzoor, Samia Nefti, Naveed Ahmad, and Saif U. R. Malik, "Differential Average Diversity: An Efficient Privacy Mechanism for Electronic Health Records," *Journal of Medical Imaging Health*, Volume 7, No. 06, pp. 1177–1187, 2017.
5. **A. Anjum**, G. Raschia, A. Khan, Saif U. R. Malik, N. Ahmad, M. Ahmed, S. Suhail, and M. Alam, "τ-Safety: A Privacy Model for Sequential Publication with Arbitrary Updates," *Computers & Security*, volume 66, May 2017, Pages 20–39.
6. Faheem Zafar, Abid Khan, Saif U. R. Malik, Mansoor Ahmed, **Adeel Anjum**, Majid Iqbal Khan, Nadeem Javed, Masoom Alam, Fuzel Jamil, "A survey of cloud computing data integrity schemes: Design challenges, taxonomy and future trends," *Computers & Security*, Volume 65, March 2017, Pages 29-49, ISSN 0167-4048.
7. An Ontology-Based Approach for Detecting Drug Abuse Epidemiology Saleha Asad, Tanzila Saba, Shariq Hussain, Mansoor Ahmed, Sheeraz Akram, Abid Khan, **Adeel Anjum**, Munim Ali Shah, and Nadeem Javaid J. Med. Imaging Health Inf. 7, 1324–1337 (2017)
8. Faheem Zafar, Abid Khan, Saba Suhail, Idrees Ahmed, Khizar Hameed, Hayat Mohammad Khan, Farhana Jabeen, **Adeel Anjum**, Trustworthy data: A survey, taxonomy and future trends of secure provenance schemes, *Journal of Network and Computer Applications*, Volume 94, 2017, Pages 50-68, ISSN 1084-8045
9. **Anjum, Adeel**; Raschia, Guillaume; ,BangA: An Efficient and Flexible Generalization-Based Algorithm for Privacy Preserving Data Publication In *Computers*,6,1,1,2017
10. S. Amjad et al., "Calculating Completeness of Agile Scope in Scaled Agile Development," in *IEEE Access*, vol. PP, no. 99, pp. 1-1. doi: 10.1109/ACCESS.2017.2765351
11. A. Aslam et al., "Decision Support System for Risk Assessment and Management Strategies in Distributed Software Development," in *IEEE Access*, vol. PP, no. 99, pp. 1-1. doi: 10.1109/ACCESS.2017.2757605
12. B. Zuhaira et al., "Identifying deviations in software processes," in *IEEE Access*, vol. PP, no. 99, pp. 1-1. doi: 10.1109/ACCESS.2017.2757954
13. Fuzel Jamil, Abid Khan, **Adeel Anjum**, Mansoor Ahmed, Farhana Jabeen, Nadeem Javaid, Secure provenance using an authenticated data structure approach, *Computers & Security*, Volume 73, 2018, Pages 34-56
14. **Adeel Anjum**, Saif ur Rehman Malik, Kim-Kwang Raymond Choo, Abid Khan, Asma Haroon, Sangeen Khan, Samee U. Khan, Naveed Ahmad, Basit Raza, An efficient privacy mechanism for electronic health records, *Computers & Security*, Volume 72, 2018, Pages 196-211
15. Rahmat Ullah, Naveed Ahmad, Saif U.R. Malik, Saeed Akbar, **Adeel Anjum**, Simulator for Modeling, Analysis, and Visualizations of Thermal status in Data Centers, *Sustainable Computing: Informatics and Systems*, Available online 4 January 2018, ISSN 2210-5379, <https://doi.org/10.1016/j.suscom.2017.12.005>. (<https://www.sciencedirect.com/science/article/pii/S2210537917301907>)
16. Basharat Mahmood, Naveed Ahmad, Saif U.R. Malik, Adeel Anjum, Saif ul Islam, Power-efficient scheduling of parallel real-time tasks on performance asymmetric multicore processors, *Sustainable Computing: Informatics and Systems*, 2017, , ISSN 2210-5379, <https://doi.org/10.1016/j.suscom.2017.10.012>.
17. Saqib, Malik Najmus, Junaid Kiani, Basit Shahzad, Adeel Anjum, and Naveed Ahmad. "Anonymous and formally verified dual signature based online e-voting protocol." *Cluster Computing*: 1-14. <https://doi.org/10.1007/s10586-018-2162-7>
18. Basit Raza, Yogan Jaya Kumar, Ahmad Kamran Malik, Adeel Anjum, Muhammad Faheem, Performance prediction and adaptation for database management system workload using Case-Based Reasoning approach, *Information Systems*, Volume 76, 2018, Pages 46-58

19. Adeel Anjum, Tahir Ahmed, Abid Khan, Naveed Ahmad, Mansoor Ahmad, Muhammad Asif, Alavalapati Goutham Reddy, Tanzila Saba, Nayma Farooq, Privacy preserving data by conceptualizing smart cities using MIDR-Angelization, Sustainable Cities and Society, Volume 40, 2018, Pages 326-334
20. Kouahla, Z., Anjum, A., Akram, S., Saba, T., & Martinez, J. (2018). XM-tree: data driven computational model by using metric extended nodes with non-overlapping in high-dimensional metric spaces. Computational and Mathematical Organization Theory, 1-28.
21. S. Yaseen; Adeel Anjum et al., "Improved Generalization for Secure Data Publishing," in IEEE Access, vol. 6, pp. 27156-27165, 2018. doi: 10.1109/ACCESS.2018.2828398
22. Raza, B., Sher, A., Afzal, S., Malik, A. K., Anjum, A., Kumar, Y. J., & Faheem, M. (2018). Autonomic workload performance tuning in large-scale data repositories. Knowledge and Information Systems, 1-37.
23. Ahmed, I., Khan, A., Anjum, A., Ahmed, M., & Habib, M. A. (2018). A Secure Provenance Scheme for Detecting Consecutive Colluding Users in Distributed Networks. International Journal of Parallel Programming, 1-23.
24. Anjum, A., Ahmad, N., Malik, S. U., Zubair, S., & Shahzad, B. (2018). An efficient approach for publishing microdata for multiple sensitive attributes. The Journal of Supercomputing, 74, 5127-5155.
25. Amjad Rehman, Tanzila Saba, Toqeer Mahmood and Adeel Anjum "Data hiding technique in Steganography for information security using number theory", November 2018, Journal of Information Science
26. Tanzila Saba, Naveed Abbas, Amjad Rehman, Adeel Anjum, "Plasmodium Life Cycle Stage Classification Based Quantification of Malaria Parasitaemia in Thin Blood Smears", Oct 2018, Microscopy Research and Technique
27. Muhammad Waqas, Saif Ur Rehman Malik, Saeed Akbar, Adeel Anjum, Naveed Ahmad, Convergence time analysis of OSPF routing protocol using social network metrics, Future Generation Computer Systems, Volume 94, 2019, Pages 62-71, ISSN 0167-739X
28. Adeel Anjum, Nayma Farooq, Saif Ur Rehman Malik, Abid Khan, Mansoor Ahmed, Moneeb Gohar, An effective privacy preserving mechanism for 1: M microdata with high utility, Sustainable Cities and Society, Volume 45, 2019, Page 213
29. S. Akbar, S. U. R. Malik, S. U. Khan, R. Choo, A. Anjum and N. Ahmad, "A Game-based Thermal-aware Resource Allocation Strategy for Data Centers," in IEEE Transactions on Cloud Computing. doi: 10.1109/TCC.2019.2899310
30. [Saba T](#), [Khan SU](#), [Islam N](#), [Abbas N](#), [Rehman A](#), [Javaid N](#), [Anjum A](#) Cloud-based decision support system for the detection and classification of malignant cells in breast cancer using breast cytology images.. Jan 2019 Microscopy Research and Technique doi: 10.1002/jemt.23222
31. Bilal Tahir, . . . ,Adeel Anjum, Feature Enhancement Framework for Brain Tumor Segmentation and Classification January 2019 Microscopy Research and Technique DOI: 10.1002/jemt.23224
32. Kouahla, Z., Anjum, A., & Seridi, H. (2018). Indexing through separable partitioning for complex data sharing in P2P systems. Journal of Intelligent & Fuzzy Systems, 35(6), 6469-6478.

✓ **Professional Activities**

- Reviewer, Elsevier Information Science.
- TPC Member of FIT 2014.
- TPC Member of FIT 2015.
- TPC Member of FIT 2016.
- TPC Member of FIT 2017.

✓ **References** (Can provide more references)

- Guillaume Raschia , Professor, University of Nantes France  
Email: [guillaume.raschia@univ-nantes.fr](mailto:guillaume.raschia@univ-nantes.fr)
- Marc Gelgon, Professor, University of Nantes France  
Email: [marc.gelgon@univ-nantes.fr](mailto:marc.gelgon@univ-nantes.fr)
- Abid Khan, Associate Professor, Comsats University Islamabad  
Email: [abidkhan@comsats.edu.pk](mailto:abidkhan@comsats.edu.pk)