

Personal information

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Nationality(-ies)	Pakistani
Date of birth	March 2, 1978
Gender	Male
Research Interest	My research interests focus on wireless networks, embedded systems and algorithms. In particular, I am interested in sensor networks and ad hoc wireless networks. Currently I am working on delay aware tunable information delivery in wireless sensor networks, body area networks and VANETS.

Employment History

2012 – present	Associate Professor at Department of Telecommunication, MUET, Jamshoro, PK
2010 – 2012	Assistant Professor at Department of Telecommunication, MUET, Jamshoro, PK
2004 – 2010	Assistant Professor at Department of Computer Systems and Software, MUET, Jamshoro, PK
2003 – 2004	Lecturer at Department of Computer Systems and Software, MUET, Jamshoro, PK
2001 – 2003	Demonstrator at Department of Computer Systems and Software, MUET, Jamshoro, PK

Education

2010	Ph.D. in Computer Science - Technische Universitate Darmstadt, Germany
2003	M.E. in Communication Systems and Networks - MUET, Jamshoro, PK
2001	B.E. in Computer Systems - MUET, Jamshoro, PK

Internship

2001	Department of Computer Science - University of Illinois at Urbana-Champaign, Urbana, IL, USA.
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Areas of Expertise

- Wireless Sensor Networks.
- Vehicular Adhoc Networks.
- Telehealth.
- Body Area Networks.

Professional Activities

2012	TPC Chair, International Multi Topic Conference (IMTIC 2012), Jamshoro
2012	TPC Chair, 2nd International Workshop on Collaborative Mobile Systems and Sensors Networks (CMSSN 2012), USA
2011	HEC Approved Supervisor, since May 2011
2011	TPC Member, INMIC, Karachi
2011	TPC Member, IEEE Student Conference on Engineering Sciences and Technology, Jamshoro
2011	TPC Member, Workshop on Problem based Learning, Jamshoro
2010	Editorial Broad Member: International Journal of Ubiquitous Computing (IJUC)

Departmental Responsibilities

- Mediate the MOU signing between MUET and TU Darmstadt, Germany.
- Vice Chancellor Representative, for granting Computer Allowance.

- Coordinator, IT Endowment Fund, MUET.
- Member, The Indus Entrepreneur, MUET Chapter.
- Member, Interview Admission Committee 12 Batch.
- Departmental representative for ICPC.
- Member, Departmental Thesis Review Committee.
- Departmental Coordinator, Industrial Liaison.
- Member, Departmental Scholarship Committee.
- Member, Departmental Purchase Committee.
- Member, Departmental Management and Review Committee.

Talks

- Invited Talk, "Internet of Smart Things", at World Telecom Day, May 17, 2012, MUET, Jamshoro, PK.
- Invited Talk, "Wireless Sensor Networks: Applications and Challenges Ahead" at COMNET' 12, Feb 11, 2012, UIT, Karachi, PK.

Additional information

Annexes

- 1 List of publications

Attachment 1: List of publications

Publications

- [1] Z. Aziz, U. M. Qureshi, F. K. Shaikh, N. Bohra, A. Khelil, and E. Felemban, "Experimental analysis for optimal separation between sensor and base station in wban," in *16th IEEE International Conference on e-Health Networking, Applications and Services (Healthcom)*, (Natal-RN, Brazil, October 15-18, 2014), pp. 489–494, October 2014.
- [2] A. Ali, A. Khelil, F. K. Shaikh, and N. Suri, "Mpm: Map based predictive monitoring for wireless sensor networks," in *Autonomic Computing and Communications Systems* (A. V. Vasilakos, R. Beraldi, R. Friedman, and M. Mamei, eds.), vol. 23 of *Lecture Notes of the Institute for Computer Sciences, Social Informatics and Telecommunications Engineering*, pp. 79–95, Springer Berlin Heidelberg, September 2010. ISBN: 978-3-642-11481-6.
- [3] A. Khelil, F. K. Shaikh, P. Szczytowski, B. Ayari, and N. Suri, "Map-based design for autonomic wireless sensor networks," in *Autonomic Communication* (A. V. Vasilakos, M. Parashar, S. Karnouskos, and W. Pedrycz, eds.), pp. 309–326, Springer US, 2009.
- [4] F. K. Shaikh, A. Khelil, and N. Suri, "Areit: Adaptive reliable information transport protocol for wireless sensor networks," in *Proceedings of the International Conference on Wireless Networks (ICWN)*, (Las Vegas Nevada, USA), pp. 75–81, July 2009.
- [5] B. S. Chowdhry, F. K. Shaikh, S. Ali, and E. Felemban, "Experimental evaluation of vibration response based bridge damage detection using wireless sensor networks," *Wireless Personal Communications*, pp. 1–12.
- [6] F. Hassan, M. Shah, and F. K. Shaikh, "Information propagation in rural ambience: A vanet perspective,"
- [7] A. Khelil, F. K. Shaikh, A. Ali, N. Suri, and C. Reinl, "Encyclopedia of wireless and mobile communications,"
- [8] N. A. Mahoto, F. K. Shaikh, and A. Q. Ansari, "Exploitation of clustering techniques in transactional healthcare data,"
- [9] F. K. Shaikh, "Transport layer issues for ad hoc wsn,"
- [10] F. K. Shaikh, "Application-aware tunable data transport in heterogeneous wireless sensor networks (hwsn),"
- [11] F. K. Shaikh, S. Zeadally, and E. Exposito, "Enabling technologies for green internet of things,"
- [12] F. Ali, F. K. Shaikh, A. Q. Ansari, N. A. Mahoto, and E. Felemban, "Comparative analysis of vanet routing protocols: On road side unit placement strategies," *Wireless Personal Communications*, pp. 1–14, 2015.
- [13] E. Felemban, F. K. Shaikh, U. M. Qureshi, A. A. Sheikh, and S. B. Qaisar, "Underwater sensor network applications: A comprehensive survey," *International Journal of Distributed Sensor Networks*, 2015.
- [14] N. A. Mahoto, F. K. Shaikh, and B. S. Chowdhry, "Innovative architecture to enhance quality of service for laboratory management information systems," in *Laboratory Management Information Systems: Current Requirements and Future Perspectives*, pp. 237–251, IGI Global, 2015.
- [15] A. Memon, F. K. Shaikh, and E. Felemban, "Experimental evaluation of vehicle-to-vehicle based data transfer," in *International Conference on Information and Communication Technology Research (ICTRC)*, pp. 274–277, IEEE, 2015.
- [16] S. Ali, F. K. Shaikh, B. S. Chowdhry, and E. Felemban, "Smart structural monitoring - a case of bridge damage detection," in *4th International Conference on Wireless Communications, Vehicular Technology, Information Theory and Aerospace & Electronic Systems (VITAE)*, pp. 1–5, IEEE, 2014.
- [17] A. Ashraf, A. Asghar, F. K. Shaikh, I. Latif, A. Q. K. Rajput, A. Q. Ansari, M. Hashmani, and M. Mussadiq, "The service-centric perspective of infrastructure sharing for multi-operator core networks," *J. Appl. Environ. Biol. Sci.*, vol. 4, no. 7S, pp. 504–513, 2014.
- [18] E. Felemban, A. A. Sheikh, and F. K. Shaikh, "Mmapflow: A crowd-sourcing based approach for mapping mass pedestrian flow," in *Proceedings of the 11th International Conference on Mobile and Ubiquitous Systems: Computing, Networking and Services, Mobiquitous '14*, (ICST, Brussels, Belgium), pp. 311–317, ICST (Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering), 2014.
- [19] A. Khelil, F. K. Shaikh, A. A. Sheikh, E. Felemban, and H. Bojan, "Digiaid: A wearable health platform for automated self-tagging in emergency cases," in *EAI 4th International Conference on Wireless Mobile Communication and Healthcare (Mobihealth)*, pp. 296–299, November 2014.
- [20] U. M. Qureshi, Z. Aziz, F. K. Shaikh, N. Bohra, and A. A. Memon, "Project oriented problem based learning: A wireless sensor network perspective," *Wireless Personal Communications*, vol. 76, no. 3, pp. 463–477, 2014.
- [21] F. K. Shaikh, A. Q. Ansari, and N. A. Mahoto, "Accessing data transfer reliability for duty cycled mobile wireless sensor network," 2014.

- [22] F. K. Shaikh, B. S. Chowdhry, S. Zeadally, D. M. A. Hussain, A. A. Memon, and M. A. Uqaili, *Communication Technologies, Information Security and Sustainable Development*, vol. 414 of *Communications in Computer and Information Science*. Springer-Verlag Berlin Heidelberg, 2014.
Third International Multi-topic Conference, IMTIC 2013, Jamshoro, Pakistan, December 18-20, 2013, Revised Selected Papers.
- [23] F. K. Shaikh, M. Shah, B. Shaikh, and R. A. Shaikh, "Implementation and evaluation of vehicle-to-vehicle traffic congestion detection," in *Communication Technologies, Information Security and Sustainable Development* (F. K. Shaikh, B. S. Chowdhry, S. Zeadally, D. M. A. Hussain, A. A. Memon, and M. A. Uqaili, eds.), vol. 414 of *Communications in Computer and Information Science*, pp. 227–238, Jamshoro, Pakistan: Springer International Publishing, December 2014.
Third International Multi-topic Conference, IMTIC 2013.
- [24] A. Talpur, N. Baloch, N. Bohra, F. K. Shaikh, and E. Felemban, "Analyzing the impact of body postures and power on communication in wban," *Procedia Computer Science*, vol. 32, pp. 894–899, 2014.
- [25] R. Kazi, N. Bohra, and F. K. Shaikh, "Assessing data reliability in mobile wireless sensor network," in *Wireless Sensor Networks for Developing Countries*, pp. 73–84, Springer Berlin Heidelberg, 2013.
- [26] O. Rajput, S. Qureshi, A. R. Solangi, Z. Aziz, and F. K. Shaikh, "Applicable operational mechanisms to assist visually impaired people - a wsn perspective," in *5th International Conference on Information and Communication Technology for the Muslim World (ICT4M)*, pp. 1–6, IEEE, 2013.
- [27] S. N. Sahar, F. K. Shaikh, and I. A. Jokhio, "P2p data management in mobile wireless sensor network," *Mehran University Research Journal of Engineering and Technology (MURJ)*, vol. 32, no. 2, pp. 339–352, 2013.
- [28] S. Sahar and F. K. Shaikh, "Data transport and management in p2p data management in mobile wireless sensor network," 2013.
- [29] F. K. Shaikh, S. Zeadally, and F. Siddiqui, "Energy efficient routing in wireless sensor networks," in *Next-Generation Wireless Technologies* (N. Chilamkurti, S. Zeadally, and H. Chaouchi, eds.), Computer Communications and Networks, pp. 131–157, Springer London, 2013.
- [30] F. K. Shaikh, B. S. Chowdhry, H. M. Ammari, M. A. Uqaili, and A. Shah, *Wireless Sensor Networks for Developing Countries*, vol. 366 of *Communications in Computer and Information Science*. Springer-Verlag Berlin Heidelberg, 2013.
First International Conference, WSN4DC 2013, Jamshoro, Pakistan, April 24-26, 2013, Revised Selected Papers.
- [31] A. Ali, A. Khelil, F. K. Shaikh, and N. Suri, "Efficient predictive monitoring of wireless sensor networks," *International Journal of Autonomous and Adaptive Communications Systems (IJAACS)*, vol. 5, no. 3, pp. 233–254, 2012.
<http://www.inderscience.com/info/inarticle.php?artid=47657>.
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- [33] B. S. Chowdhry, F. K. Shaikh, D. M. A. Hussain, and M. A. Uqaili, *Emerging Trends and Applications in Information Communication Technologies*, vol. 281 of *Communications in Computer and Information Science*. Springer-Verlag Berlin Heidelberg, 2012.
Proceedings of Second International Multi Topic Conference, IMTIC 2012, Jamshoro, Pakistan, March 28-30, 2012.
- [34] I. A. Jokhio, S. H. Jokhio, and F. K. Shaikh, "A trusted naming service for things of internet," *Mehran University Research Journal of Engineering and Technology*, vol. 31, no. 2, pp. 325–334, 2012.
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- [36] S. N. Sahar and F. K. Shaikh, "Data management in mobile wireless sensor networks," in *Emerging Trends and Applications in Information Communication Technologies* (B. S. Chowdhry, F. K. Shaikh, D. A. Hussain, and M. A. Uqaili, eds.), vol. 281 of *Communications in Computer and Information Science*, pp. 409–420, Springer Berlin Heidelberg, 2012.
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- [38] F. K. Shaikh, S. Memon, and J. A. Baloch, "Modeling and simulation of sensor-to-sink data transport reliability in wsns," *Mehran University Research Journal of Engineering and Technology (MURJ)*, vol. 31, no. 1, pp. 129–136, 2012.
- [39] T. Waheed, F. K. Shaikh, and B. S. Chowdhry, "Fundamentals of wireless body area networks," in *Wireless Sensor Networks: Current Status and Future Trends* (S. Khan, A.-S. K. Pathan, and N. A. Alrajeh, eds.), ch. 4, pp. 79–104, CRC Press, November 2012.
- [40] A. Khelil, F. K. Shaikh, A. Ali, N. Suri, and C. Reinl, "Delay-tolerant monitoring of mobility-assisted wsn," in *Delay Tolerant Networks: Protocols and Applications*, pp. 189–222, Auerbach Publications, CRC Press, Taylor & Francis, 2011.

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- [55] A. Khelil, F. K. Shaikh, A. Ali, and N. Suri, "gmap: Efficient construction of global maps for mobility-assisted wireless sensor networks," in *Sixth International Conference on Wireless On-Demand Network Systems and Services (WONS)*, pp. 189–196, IEEE, February 2009.
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- [57] M. Kropff, C. Reinl, K. Listmann, K. Petersen, K. Radkhah, F. K. Shaikh, A. Herzog, A. Strobel, D. Jacobi, and O. Stryk, "Mm-ulator: Towards a common evaluation platform for mixed mode environments," in *Proceedings of the 1st International Conference on Simulation, Modeling, and Programming for Autonomous Robots*, SIMPAR '08, (Berlin, Heidelberg), pp. 41–52, Springer-Verlag, 2008.
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- [59] F. K. Shaikh, A. Khelil, and N. Suri, "Poster abstract: Meeting the evolving reliability requirements for wsn applications," in *The European Conference on Wireless Sensor Networks (EWSN)*, 2007.
- [60] F. K. Shaikh, A. Khelil, and N. Suri, "On modeling the reliability of data transport in wireless sensor networks," in *15th EUROMICRO International Conference on Parallel, Distributed and Network-Based Processing (PDP)*, pp. 395–402, IEEE, February 2007.
- [61] A. Q. Rajput, F. K. Shaikh, and A. Q. Ansari, "e-learning: A virtual environment for cooperative distance and affordable online education," *Mehran University Research Journal of Engineering and Technology (MURJ)*, vol. 22, no. 1, pp. 57–64, 2003.