

Dr. Muhammad Qasim Khan

Department of Computer Science Comsats Institute of Information Technology Attock

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Teaching and Work Experience:

- Assistant Professor at Department of Computer Science CIIT Attock Pakistan from 31 October 2012 till date.
- As teacher assistant at the Department Telematics NTNU Norway with Prof. Lill Kristiansen.
 - o January 2011 to May 2011
 - o January 2012 till date.
- Assistant in the project Networklab (NetLab) department of Telematics NTNU Norway http://www.item.ntnu.no/department/labs/netlab/start
- As a Computer Science Teacher in Pakistan Education Center (P.E.C) Doha Qatar. Feb 2007 to May 2008.
- As a Lecturer in PSI institute Peshawar, Pakistan from 9th Sept 2004 to 14th Oct 2006.
- As visiting lecturer in Mardan Institute of I.T, Pakistan from 20 Sept 05 to 20 Dec 2005.
- As a Lecturer in Brains Post Graduate College Peshawar Pakistan from 10th Dec 2003 to 5th Sept 2004.

Education

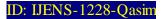
 PhD at Norwegian University of Science and Technology Norway from (August 2008 to August 2012).

Thesis Title: Optimizing Handovers in Wireless Networks utilizing extended MIIS facilities. Supervisors: Prof. Steinar Hidle Andresen and Co-Supervisor: Prof. Poul Heegard

Brief Synopsis of Research:

Handover efficiency in wireless and mobile communication networks is an important factor in providing Quality of Service (QoS) guarantees for real time applications. Due to the fact that internet does not support mobility by design; protocols with additional functionality are needed. These protocols must not only guarantee continuous communication but must also ensure delay sensitive applications do not experience communications breaks.

IJENS-RPG [IJENS Researchers Promotion Group]



Research Interests:

My current research is on Handover Efficiency and Mobility Management in Packet switched networks.

- 2005 2007 MS-IT from University of Peshawar Pakistan.
- 2002 2003 MSc in Computer Science from University of Peshawar Pakistan.
- 1999 2001 BSc Computer Science from University of Peshawar Pakistan.
- 1997 1999 F.Sc Pre Engineering from Federal Board Islamabad Pakistan.
- 1995 1997 SSC from Board of Intermediate and Secondary Education Peshawar.

Conference Publications and Presentations:

- Muhammad Qasim Khan, Steinar Hidle Andresen, "A Semi and Fully Distributed Handover Algorithm for Heterogeneous Networks using MIIS". In proceedings of 17th IEEE Symposium on Computers and Communication (ISCC12) Cappadocia Turkey 1 - 4 July 2012. DOI: 10.1109/ISCC.2012.6249283.
- 2. Muhammad Qasim Khan, Steinar Hidle Andresen, "Zero Scanning Time for 802.11 Networks by Using Media Independent Information Server (MIIS)". In proceedings of 26th IEEE International Conference on Advanced Information Networking and Applications (AINA-2012). IEEE Computer Society 2012 ISBN 978-0-7695-4651-3. pp. 467-473. DOI: 10.1109/AINA.2012.100.
- 3. Muhammad Qasim Khan, Steinar Hidle Andresen, "PoA Selection in 802.11 Networks using Media Independent Information Server (MIIS)".In proceedings of the 25th IEEE International Conference on Advanced Information Networking and Applications Workshops (WAINA 2012) Fukuoka Japan, March 26 29, 2012. IEEE Computer Society 2011 ISBN 978-0-7695-4652-0. pp. 454-459. DOI: 10.1109/WAINA.2012.142.
- 4. Muhammad Qasim Khan, Steinar Andresen Hidle, "The Implications of Zero Scanning Time on MIPv6 Handover Delays by Using Media Independent Information Server (MIIS)", Proceedings of the 17th Asia-Pacific Conference on Communications (APCC 2011).: IEEE 2011 ISBN 978-1-4577-0388-1.
- **5.** Muhammad Qasim Khan, Steinar Andresen Hidle, "An Intelligent Scan Mechanism For 802.11 Networks by Using Media Independent Information Server (MIIS)" accepted in FINA workshop collocated with 25th IEEE International Conference on Advanced Information Networking and Applications (AINA-2011) Biopolis, Singapore, March 22 25, 2011.
- **6.** Muhammad Qasim Khan, Steinar Andresen Hidle, Kashif Nizam Khan. "Pros and Cons of Route Optimization Schemes for Network Mobility (NEMO) and Their Effects on Handovers". International Conference on Frontiers of Information Technology (FIT) Islamabad Pakistan Dec 2010. ACM Press ISBN 978-1-4503-0342-2.
- **7.** Muhammad Qasim Khan, Steinar Andresen Hidle "Application of Media Independent Handover (MIH) for Intra Technology Handover". Mosharaka International Conference on Communications, Networking and Information Technology Dec 2009 Amman Jordan.
- 8. Abdul Muhamin Naeem, Muhammad Inam ul Haq, Irshad Ahmad, Muhammad Islam,



Muhammad Qasim Khan, "Radial Symmetry Based Real-Time Weed Classifier" International Conference on Control, Instrumentation and Mechatronics Engineering (CIM'07), Johor Bahru, Johor, Malaysia, May 28-29,2007

Journals Publications

1. Muhammad Qasim Khan, Steinar Andresen Hidle, "Pros and Cons of Route Optimization Schemes for Network Mobility (NEMO) and Their Implications on Handovers". In Transactions on Electrical and Electronic Engineering. IEEJ, Vol.7/No.6 (November 2012 Issue). DOI: 10.1002/tee.21781

Reviewed Conferences/Journals

- Globecom 2011
- IEEE Communication Letters 2012.
- IEICE Transactions 2012
- ISWTA 2012

Supervised student project:

Issues in Network Mobility (NEMO) fall semester 2009.

Training Workshops Attended:

- Scientific Writing Workshop NTNU February 2012.
- Workshop on CDMA 1X RC1 & RC2 delivered by Dr Syed Ismail Shah (Program Director PakCDMA Forum).

Programming Experience:

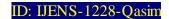
- Simulation in ns2.
- Computerization of Library of Informatics Institute of I.T Peshawar.

Languages:

■ Fluent in English, Pashto and Urdu

Hobbies and Interests:

■ Travel, Music, Sports, Movies



References:

Prof. Steinar Hidle Andresen (PhD Supervisor)

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Prof. Lill Kristiansen

Professor, Department of Telematics., Norwegian University of Science and Technology N-7491 NTNU Trondheim Norway.

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Prof. Poul Heegard (PhD Co-Supervisor)

Professor and Head of department, Department of Telematics.

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