

## Curriculum Vitae



**SANA ULLAH**

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### EDUCATION

- PhD (Wireless Communication) – Inha University, South Korea
- MS (Computer Science) - University of Peshawar, Pakistan.
- BS (Computer Science) - University of Peshawar, Pakistan.
- MSc research thesis (2005) . Ellipsis Resolution in Machine Translation. A theoretical research oriented approach to Ellipses, Department of Computer Science, University of Peshawar.

### WORK EXPERIENCE.

- March-2007, Research Assistant in UWB Wireless Communication Lab (until now)
- 10-2006 to 02-2007, Research Associate, Institute of Knowledge Discovery and Language Sciences Otto-von-Guericke University Magdeburg Germany.
- Sep 2005-Sep 2006, Network Administrator, Alam Communication Pvt Ltd
- Jan 2004-mar 2005, Software engineering (part time) at Silicon Solutions, swat Pakistan.
- Jan 2002-Dec 2002, Web Designer (Part time), Nex Computer Institute..

### Journal Publications:

(In 2008)

- 1- **Sana Ullah**, Henry Higgins, Young-Woo Cho, Hyung-Soo Lee, Kyung Sup Kwak,  
**Towards RF Communication and Multiple Access Protocols in a Body Sensor**

**Network**, Accepted for publication in a Journal of Digital Content Technology and its Applications , November 2008

- 2- **Sana Ullah**, Riazul Islam, Ahasanun Nessa, Yingji Zhong, Kwak Kyung Sup, **Performance Analysis of a Preamble Based TDMA Protocol for Wireless Body Area Network**, Journal of Communications Software and Systems, Volume 4, Number 3, November 2008

(In 2007)

- 3- **Sana Ullah**, Henry Higgins, Kyung Sup Kwak, **A comprehensive study of invasive and non-invasive body sensor networks (Korean Version)**, KICS Special issue Magazine on WBAN, pg 18-25, ISSN 1226-4725, 25-02-08

#### Conference Publications:

(In 2008)

- 1- **Sana Ullah**, Pervez Khan, Young-Woo Cho, Hyung-Soo Lee, Kyung Sup Kwak, **MAC Layer hurdles in a BSN**, Accepted for publication in ICACT 2009.
- 2- **Sana Ullah**, Y. Zhong, , R.Islam, A.Nessa, Kyung Sup Kwak, "**Throughput Limits of IEEE 802.11 and IEEE 802.15.3**," 4th International Conference on Wireless Communications, Networking and Mobile Computing, 2008. WiCOM '08 , vol., no., pp.1-4, 12-14 Oct. 2008
- 3- A.Nessa, M.Ameen, **Sana Ullah**, Kyung Sup Kwak, "**Applicability of Telemedicine in Bangladesh: Current Status and Future Prospects**," Convergence and Hybrid Information Technology, 2008. ICCIT '08. Third International Conference on , vol.1, no., pp.948-953, 11-13 Nov. 2008
- 4- A. Nessa,, Q.Yang, **Sana Ullah**, M.Kabir, Kyung Sup Kwak, "**Performance Analysis of Two-Hop Cooperative MIMO transmission with Relay Selection in Rayleigh Fading Channel**," Wireless Communications, Networking and Mobile Computing, 2008. WiCOM '08. 4th International Conference on , vol., no., pp.1-4, 12-14 Oct. 2008
- 5- **Sana Ullah**, R.A.Islam, Kyung Sup Kwak, **Throughput Evaluation of IEEE 802.15.3 and IEEE 802.15.4 for Body Sensor Network**, KICS (Korea Institute of Communication Society) 2008 Summer conference, Jeju, South Korea.
- 6- Y.Zhong, **Sana Ullah**, Kyung Sup Kwak, **A Novel Cross Layer Scheme for Multi-Channel Hybrid Cognitive Ad-hoc Networks**, KICS (Korea Institute of Communication Society) 2008 Summer conference, Jeju, South Korea.

- 7- M.A.Hussain, **Sana Ullah**, Kyung Sup Kwak, **Performance Analysis of Ad Hoc Routing Protocols**, KICS (Korea Institute of Communication Society) 2008 Summer conference, Jeju, South Korea.
- 8- R.A.Islam, **Sana Ullah**, M. Kabir, Kyung Sup Kwak, **Analysis of Bit Error Rate of Rake Receiver for CDMA System**, KICS (Korea Institute of Communication Society) 2008 Summer conference, Jeju, South Korea.
- 9- **Sana Ullah**, M.A.Ali, Kyung Sup Kwak, **Applications of UWB Technology**, NEXT 2008, Turku Finland.
- 10- **Sana Ullah**, H.Higgins, Kyung Sup Kwak, **A study of implanted and wearable BSN**, Lecture Notes in Computer Science, Volume 4953/2008, pg 464-473 Heidelberg Germany.

**(In 2007)**

- 1- **Sana Ullah**, M.A. Arif, Kyung Sup Kwak, **A Survey on WBAN system for ambulatory health monitoring**, appeared in proceedings of Second International Symposium on Medical Information and Communication Technology, pg 30 11-13 December 2007 Finland.
- 2- **Sana Ullah**, M.A. Hussain, Kyung Sup Kwak, **Resolution of Unidentified words in Machine Translation**, NEXT International Conference on Exploratory Technology, pg 603-606.
- 3- M.A. Arif, **Sana Ullah**, Kyung Sup Kwak, **A Linear Programming Based Routing Approach in Wireless Ad-Hoc Network**, NEXT International Conference on Exploratory Technology, pg 601-602.
- 4- **Sana Ullah**, M.A.Khan, Kyung Sup Kwak, **A discourse based approach in text based machine translation**, International Technical Conference on Circuits/Systems, Computers and Communications, Vol 3, Pg 1073-1074

**OTHER PUBLICATIONS**

- **Dynamic Korea, Inha Times 2007**

**OTHER ACTIVITIES**

- 1- Guest Editor, International Journal of Digital Content Technology and its Applications, Special Issue on "Invasive and Non-invasive Body Sensor Networks"
- 2- Reviewer of IEEE Wireless Communications and Networking Conference (WCNC 2009)
- 3- Member of International Association of Engineers (IAENG)
- 4- Member of the international Committee on AICIT's international conference series (NCM, NISS and ICCIT)

5- Member of the international Committee ICACT conference series

## **SOCIAL ACTIVITIES**

- 11 November 2006, Pakistani Cultural Night, Otto-von-Guericke University Germany.
- 26 January 2007-6 February 2007, Cultural tour to London.
- April 2007 Joined UNESCO-CCAP
- Volunteer-AIDC Korea (7 May 2007- 13 May 2007)
- 26 June 2007 Participated in 2<sup>nd</sup> workshop & Get together CCAP Korean National Commission for UNESCO Seoul Korea
- 3 July 2007-6 July 2007, Korean Culture Experience Tour, Ministry of Culture and Tourism South Korea.
- 28 July 2007, International Firework Festival Pohan including second visit to POSCO, IFC Seoul Korea.
- 15 August 2007, participated in India 60<sup>th</sup> independence anniversary program, Inha University South Korea.
- 23-25 August 2007, participated in international IITA fair 2007 Taegu South Korea

## **OTHER SKILLS**

- Online Computerization of Library, Department of Computer Science, University of Peshawar, using Asp/Access as web development tool.
- Familiar with Web Development using HTML,ASP, PHP and other E commerce applications.
- Languages. Conversational and good written skills in Pushto, English, Urdu and German.
- Sep 2003, TU-Darmstadt Germany, German Language Course.
- Strong programming skills in C ++ and JAVA.
- Feb 2007- Completed a course in Multimedia Technology, otto von guericke university Magdeburg Germany.