

**Mohammad Abid Khan**

Professor of Computer Science & Dean Faculty of Numerical and Physical Sciences  
Department of Computer Science, University of Peshawar, Pakistan.  
Phone:(Off) 091/9216045, 091/9216701-20, Ext. 3129  
Mobile No. 0302-5197931

(e-mail) [mabid@upesh.edu.pk](mailto:mabid@upesh.edu.pk)

Date of Birth September 9, 1961

**Experience (Teaching, Research and Administration):**

1. University of Peshawar since September 6, 2004.
2. National University of Computer & Emerging Sciences from July 2001 up to September 5, 2004
3. University of Peshawar from July, 1998 up to July 2001
4. Al-Isra University, Jordan from September, 1995 up to July, 1998
5. University of Peshawar, Pakistan from May, 1984 up to September, 1995

**Main tasks are teaching, research and administration.**

S. No.	Designation	From	To
1.	Professor	21-3-2009	onwards
2.	Associate Professor	6-9-2004	20-3-2009
3.	Professor (FAST-NU)	13-07-2001	5-9-2004
4.	Associate Professor	04-06-95	12-06-2001
5.	Assistant Professor	12-02-92	03-06-95
6.	Lecturer	02-05-84	11-02-92

**ACADEMIC RECORD:**

Degree	Year	Subject	Institute
Ph.D.	1990	MachineTranslation (NLP)	Cranfield University, UK.
M.Sc.	1987	Software Tech. for CAE	Cranfield University, UK.
M.Sc	1984	Computer Science	Q.A.Univ.,Islamabad, Pakistan
B.Sc	1981	Phys., Math.and Stat.	J.Z.College,Swat,NWFP,Pakistan

**Achievements:**

1. Was a founding member in the team for the establishment of the Department of Computer Science, University of Peshawar and the initiation of Computer Science as a course at B. Sc level in the colleges of Khyber Pukhtoonkhwa
2. Initiated degree program of 4-years Bachelor of Computer Science in the Department of Computer Science, University of Peshawar, in 1998.
3. Initiated MS degree program in Computer Science in the Department of Computer Science, University of Peshawar, in 2005.

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4. Initiated PhD degree program in Computer Science in the Department of Computer Science, University of Peshawar, in 2009.
5. Was the founding director of the Peshawar campus of the National University of Computer and Emerging Sciences (FAST)
6. Was the founding member of the team for the creation of the Society for Natural Language Processing in Pakistan

**Areas of Thesis:**

1. Ph.D. Thesis (Cranfield) 1987-1990  
The use of text-based approach in Natural Language Translation by computer
2. M.Sc. thesis (Cranfield) 1987  
Natural Language Processing for AI applications
3. M.Sc. thesis (Q.A.U) 1983-84  
Feasibility study of the Computerization of Development  
Statistics and ADP of the Bureau of Statistics, NWFP

**Projects Supervision/consultancy:**

1. Research Projects  
A number of projects on various aspects of Natural Language Processing e.g. computational morphology, syntax, anaphora resolution, ellipses resolution, corpus development and processing, and phonology of Pashto language; syntax, anaphora/ellipses resolution, discourse processing, corpus development and processing in Urdu language, Text Simplification and Part-of-Speech Tagging.
2. Developmental Projects  
A number of projects were supervised related to mobile computing, corpus linguistics, Urdu and Pashto corpus creation and processing, Example-based Machine translation, character recognition, expert systems, banking systems, personal information systems, payroll, inventory, agricultural statistics and scheme monitoring information systems.

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**Administrative Experience:**

Dean June 12, 2015 till date  
Faculty of Numerical and Physical Sciences  
University of Peshawar

Chairman October 8, 2004 to September 7, 2010  
Department of Computer Science  
University of Peshawar

Director July, 2001 to December, 2003  
National University of Computer and  
Emerging Sciences (FAST), Peshawar Campus

Chairman June, 1995 to Sep. 1995 and Sep. 1998 to July, 2001  
Department of Computer Science  
University of Peshawar

Acting Chairman September 3, 1991 to June, 1995  
Department of Computer Science,  
University of Peshawar

Assistant Warden, From 8-12-1984 to 27-1-1986  
Hostel No. 9,  
University of Peshawar.

Mess Secretary, Session 1982-83  
Hostel No. 4,  
Q.A.U. Islamabad.

Senior Monitor, Session 1980-81  
Mingora Hostel,  
J.G.College, Swat

**Training:**

1. Pre-service Teachers' Training  
National Academy for Higher Education(NAHE),  
University Grants Commission, summer vacations, 1986
2. On Oracle and NT Windows in Al-Isra University, Jordan
3. How to Manage a Software Project

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- Lahore University of Management Sciences, June 28-29, 2000.
4. Training course on "Technological Foresight", June 30-July 11, 2008 Comstech, Islamabad
  5. Training program on Computing Accreditation, June 25-27, 2012, Higher Education Commission

**International Study Tour:**

During student life, apart from various study tours in the U.K., I went on a study tour of the continental Europe during the period of my literature survey (i.e. summer, 1988) and went to different Universities and Research Centers in France, Germany, Belgium, Switzerland, Luxembourg and The Netherlands.

**Conferences Attended:**

1. Discourse Processing and the representation of coherence  
University of Brabant, Tilburg, Netherlands,  
September 1-3, 1988
2. The Seminar on Bilingual Computing in Arabic and English University of  
Cambridge, England, September 6-7, 1989
3. Postgraduate Artificial Intelligence Workshop, University of  
Warwick, England, January 3-5, 1990  
(A paper was presented in this workshop)
4. Speech and Language Technology Club (SALT) Workshop on Machine  
Translation  
University of Manchester Institute of Science and Technology (UMIST), July 2-  
3, 1990.
5. Third National Computer Conference Pakistan Computer Bureau, January 14-16,  
1991  
(A paper was presented in this conference)
6. First National Symposium on Artificial Intelligence Bara Gali Summer Campus,  
University of Peshawar, August 10-13, 1991.  
(A paper was presented in this conference)
7. The use of new technology in the development of Pushto Language and literature  
Bara Gali Summer Campus, University of Peshawar, September 9-13, 1993

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(A paper was presented in this conference)

8. National Workshop on Education and Development: Role of Universities  
Part-1: University Grants Commission, April 11-13, 1994  
Part-2: Bara Gali Summer Campus, University of Peshawar,  
July 10-14, 1994  
(A paper was presented in each part)
9. New Technologies and their Applications in Industry, International Seminar,  
International Islamic University Islamabad, December 18-20, 1994
10. International Workshop on Computer Vision & Parallel Processing Department  
of Electronics, Quaid-i-Azam University, Islamabad January 2-5, 1995
11. One Day Seminar on Comparative Linguistics, Department of Computer Science,  
University of Peshawar, March 14, 1995.
12. Information Technology Summit, Good Governance Group, Pak. Secretariat,  
August 16, 1999.
13. International Workshop on Distributed Computing, Communication and  
Application, International Islamic University, Islamabad, May 8-10, 2000.
14. How Information Technology can Benefit the Society, University of Peshawar,  
July 29, 2000.
15. Information Technology--the key to Development in the 21st Century”, Pakistan  
Computer Bureau, Islamabad, Nov. 13-14, 2000.
16. First National Urdu Software Development Workshop, National University of  
Computer and Emerging Sciences, Lahore Campus, March 22-25, 2001.
17. Human Language Technologies – The Baltic Perspective, Riga, Latvia, April 21-  
22, 2004.
18. National Workshop on Capacity Building in Global Change Research, Islamabad,  
Pakistan, June 8-10, 2004.
19. Workshop on International Proofing Tools and language Technology, Patras,  
Greece, July 1-2, 2004.

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20. Microsoft Academic Days, Doha, Qatar, December 13-14, 2005.
21. Third International Workshop on Frontiers of Information Technology, December 28-29, 2005, Islamabad, Pakistan
22. Second International Conference on Emerging Technologies, November 13-14, 2006, Peshawar, Pakistan
23. Microsoft Academic Days, Tunisia, February 27-28, 2007
24. Corpus Linguistics 2007, University of Birmingham, July 28-30, 2007
25. Conference on Language and Technology (CLT07), Bara Gali Summer Campus, University of Peshawar, August 7-11, 2007
26. Third International Conference on Emerging Technologies, held on November 12-13, 2007, Riphah International University, Islamabad, Pakistan
27. Conference on Language and Technology (CLT09), National University of Computer and Emerging Sciences, Lahore Campus, January 22-24, 2009
28. Corpus Linguistics 2009, University of Liverpool, July 20-23, 2009
29. 11<sup>th</sup> ACIS International Conference on Software Engineering, Artificial Intelligence, Networking and Parallel/Distributed Computing, University of Greenwich, London, UK, June 9-11, 2010
30. Corpus Linguistics 2011 – Discourse and Corpus Linguistics July 20-22, 2011, University of Birmingham
31. Conference on Language and Technology (CLT12), University of Engineering and Technology, Lahore, November 9-10, 2012.
32. 5th Conference on Language and Technology 2014, 13-15 November, 2014. DHA Suffa University, Karachi

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**Conferences/workshops/Training programs organized:**

1. Chief Organizer of:  
First National Symposium on Artificial Intelligence,  
Bara Gali Summer Campus, University of Peshawar,  
August 10 - 13, 1991.
2. Organized:  
One Day Seminar on Comparative Linguistics, Department of Computer Science,  
University of Peshawar, March 14, 1995.
3. Organised: Workshop on How Information Technology Can Benefit The Society,  
Department of Computer Science, University of Peshawar, July 29, 2000.
4. Organised: Two one-week training programs for teachers of colleges in Computer  
Science for the Khyber Pakhtunkhwa.
5. Organized: Conference on Language and Technology (CLT07), August 7-11,  
2007.

**Graduate Research Students**

PhD Students (Research in Progress)

1. Neelam Mukhtar      Opinion Mining in Urdu Text
2. M. Aamir Khan      Discourse Processing

MS Students (Research Completed)

1. Fatima Tuz Zuhra      A Corpus-Based Finite State Morphological Analyzer for  
Pashto
2. M. Aamir Khan      Zero Pronoun Detection and Resolution in Urdu Discourse  
for Machine Translation
3. Azziz-Ud-Din      De-Cliticization of Pashto Text for Better Machine  
Translation
4. M Naveed Ali      Discourse Analysis and Segmentation of Multi-sentential  
Urdu Text by Computer for Effective Machine Translation
5. Rahman Ali      Pronominal Anaphora Resolution in Pashto Discourse
6. Ihsan Rabbi      Part of Speech Tagging for Pashto
7. Rashid Ahmad      A Natural Language Interface to Database for Urdu

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- |                           |  |
|---------------------------|--|
|                           | Language   |
| 8. Jamal Abdul Nasir      | Distributive and Reflexive Anaphora Resolution in Urdu Discourse                             |
| 9. Sher Akbar Khan        | Computation of Gender of Nouns in Urdu Text  |
| 10. Amjad Ali             | Knowledge Representation of Urdu Text Using Computational Logic                              |
| 11. Alamgir Khan          | Sluicing in Urdu Language  |
| 12. Mushtaq Ali           | The Study of Ellipses in WH-Constructions (in Pashto)  |
| 13. Syed Liaqat Ali       | Effectiveness of Information Technology in the Development of Library Profession in Pakistan |
| 14. Fazal Aman            | Resolving Syntactic Ambiguities in Urdu Language   |
| 15. Neelam Mukhtar        | Corpus Based Syntactic Parsing of Urdu Using Statistical Techniques                          |
| 16. Naila Fareen          | Urdu Naskh Typography Pattern Recognition of Type Foundries                                  |
| 17. Fakhre Alam           | RDF and Topic Maps: Complementary or Competitive?  |
| 18. Jawairyah Bukhari     | Urdu Part of Speech Tagging Using Colors   |
| 19. M. Abdullah Al-Ghaili | Identification of Discourse Boundaries in Urdu Monologue                                     |

MS Students (Research near to completion)

- |                |   |
|----------------|---|
| 1. Faiza Shah  | Sentiment analysis in Urdu Text using nouns |
| 2. Tariq Naeem | Derivational Morphology of Pashto           |

MS Students (Research Just Started)

- |             |                    |
|-------------|--------------------|
| 1. Asim Jan | Text Summarization |
| 2.          |                    |
| 3.          |                    |

**LIST OF PUBLICATIONS**

**Journal Publications:**

Alam, F., Khan, M. A., Rahman, S., Khusro, S., and Ali, S., “Resource Description Framework and Topic Maps: Complementary or Competitive? A Survey”

Proceedings of the Pakistan Academy of Sciences 52(1): pp1-19 (2015)

Alam, F., Ali, S., **Khan, M. A.**, Khusro, S., and Rauf, A., “A Comparative Study of RDF and Topic Maps Development Tools and APIs”,



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Bahria University Journal of Information & Communication Technologies Vol. 7, Issue 1, pp1-12, December 2014

Alam, F., **Khan, M. A.**, Ali, S., and Khusro, S., “The Jigsaw of Resource Description Framework (RDF) and Topic Maps Serialization Formats: A Survey”, Proceedings of the Pakistan Academy of Sciences 51 (2): pp101–114 (2014)

Ali, R., and **Khan, M. A.** , “Second Order Predicate Logic for Pashto Knowledge Representation”, Pashto, Bilingual Quarterly Research Journal, Pashto Academy, University of Peshawar, Volume 41, No. 643s, pp34-41, July-December, 2012

Mukhtar, N., **Khan, M. A.**, Zuhra, F., and Chiragh, N., “Implementation of Urdu Probabilistic Parser”, International Journal of Computational Linguistics, Volume 3, Issue 1, pp.12-20, 2012

Mukhtar, N., **Khan, M. A.**, and Zuhra, F., “Algorithm for developing Urdu Probabilistic Parser”, International Journal of Electrical and Computer Sciences IJECS-IJENS, Vol: 12 No: 03, pp. 57-66, June 2012

Mukhtar, N., **Khan, M. A.**, and Zuhra, F., “Probabilistic Context Free Grammar for Urdu “Linguistics and Literature Review, Vol. 1, No. 1, pp86-94, 2011. [www.umt.edu.pk/llr](http://www.umt.edu.pk/llr)

Ali, R., **Khan, M. A.**, Ahmad, Z., Ahmad, I., and Amir, M., “A State-of-the Art Review of Corpus Linguistics Journals”, *Peshawar University Teachers Association Journal (PUTAJ)*, Vol. 18, pp. 225-239, ISSN 2219-2468, University of Peshawar, Pakistan, 2011.

Bilal, M., **Khan, M. A.**, Ali, R., Ahmad, R., “An adaptive approach of syntactic ambiguity resolution in Pashto”, *African Journal of Mathematics and Computer Science Research* Vol. 4(2), pp. 55–63, February 2011. <http://www.academicjournals.org/AJMCSR>

Ali, R., and **Khan, M. A.**, “Computational Treatment of Zero Anaphora in Pashto Language”, *Bilingual Quarterly Research Journal, Pashto*, Vol. 39-40, No: 641s, ISSN: 0555-8158, pp. 1-11, Pashto Academy, University of Peshawar, Sept 2010- Oct 2011. <http://pashtoacademy.edu.pk/library/books/image/40.html>

Din, A., and **Khan, M. A.**, “De-Cliticizing Context Dependent Clitics in Pashto text” *International Journal of Latest Trends in Computing (E-ISSN: 2045-5364)*, Volume 1, Issue 1, Sept. 2010.

**Khan., M. A.**, Khan A., and Ali, M., “Resolving Sluices in Urdu” *Software Engineering, Artificial Intelligence, Networking and Parallel/Distributed*

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Computing,  
Studies in Computational Intelligence, Springer Berlin / Heidelberg, 2010

**Khan, M. A.**, Zuhra, F., and Din, S. J., “English to Pashto Spelling Transducer”  
Peshawar University Teachers' Association Journal, Sciences, 2008, Vol. 15, pp39-45

**Khan, M. A.** “A Lexicon Development for Pashto Part of Speech Tagger”  
Quarterly Research Journal, Pashto Academy, University of Peshawar, Volume 38, No.  
638s, October-December, 2008, pp23-28

**Khan, M. A.**, and Zuhra, F., "Computerization of the Inflectional Morphological System  
of Pashto" Quarterly Research Journal, Pashto Academy, University of Peshawar,  
Volume 38, No. 636, April-June, 2008

**Khan, M. A.**, and Zuhra, F., "Investigating Pashto Adjectives" Quarterly Research  
Journal, Pashto Academy, University of Peshawar, Volume 37, 38, No. 613, Sept. 2007-  
March 2008

**Khan, M. A.**, Nisar, S. Samin, H, and Sahrai, S. "Towards Urdu Corpus Creation and  
Processing" Peshawar University Teachers' Association Journal, Sciences, Vol. 14, pp1-  
9, 2007

**Khan, M. A.**, and Zuhra, F., "The Computational Morphology of Pashto Nouns"  
South Asian Language Review, A Biannual Journal of Language and Linguistics,  
**Volume XVII. No.1. January 2007** <http://salr.net/volumexvii1.aspx>

**Khan, M. A.**, and Zuhra, F., “Compound Verbs in Pashto: A Step Towards Their  
Computational Treatment” Quarterly Journal, Pashto Academy, University of Peshawar,  
Oct-Dec 2006, Jan-Mar 2007, pp 1-14

**Khan, M. A.**, and Zuhra, F., “The Verbal Adjectives of Pashto from Computational Point  
of View” Quarterly Pashto, Pashto Academy Journal, University of Peshawar, July-  
August-September, 2006, pp23-37

**Khan, M. A.**, and Zuhra, F., “The Morphology of Pashto Pronoun – A Computational  
Perspective” Central Asia, Issue No. 58, Summer 2006

Khan, M. A., and **Khan, M. A.**, “Zero Pronoun Detection and Restoration of Urdu  
Discourse”  
South Asian Language Review, A Biannual Journal of Language and Linguistics,  
**Volume XVI. No.2. June 2006** <http://salr.net/volumexvi2.aspx>

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**Khan, M. A.** and Zuhra, F., "A Computational Approach to the Pashto Pronoun"  
Peshawar University Teachers' Association Journal, Sciences, Vol. 13, pp27-35, 2006

**Khan, M. A.**, and Zuhra, F., "Pashto Verbs in the Past Tense – A Computational View"  
Quarterly Pashto, Pashto Academy Journal, University of Peshawar, April, May, June,  
2006, pp 41-71

**Khan, M. A.**, and Zuhra, F., "Towards the Computational treatment of the Pashto Verb"  
Scientific Khyber, Vol 18, No.1, January, 2005, PP123-141.

**Khan, M. A.**, "Machine Translation of Arabic Language using Discourse Processing"  
Scientific Khyber, Vol.17, No.2, July, 2004, PP215-223.

**Khan, M. A.**, "Discourse-Based Machine Translation: A New Reality"  
Scientific Khyber, Vol.17, No.1, January, 2004, PP115-118.

**Khan, M. A.**, Begum, R., and Kulsoom, B., "Urdu Anaphora Resolution"  
Scientific Khyber, Vol.8, No.2, July, 1995, PP99- 118.

**Khan, M. A.**, "Natural Language Dialogue" The Journal of Humanities and Social  
Sciences  
Vol.II, No.1, March 1994, pp25-43.

**Khan, M. A.** and Clarke J. D. "An overview of Text-Based Machine Translation: Theory  
and Practice", Scientific Khyber, Vol.7, No.2, 1994, pp121-134.

**Khan, M. A.**, Naz, S., and Rahat, S. "Pushto Linguistics and Computer" (in Pushto)  
Peshawar University Journal, No.2 1993-94, pp202-217.

**Khan, M. A.** "Natural Language Processing" Peshawar University Teachers' Association  
Journal, 1993-94, pp106-126.

**Khan, M. A.**, and Sultan, A. "Natural Language Interfaces to Computer Systems",  
Science Technology and Development, Vol.13, No.3, July-September, 1993, pp15-17

**Khan, M. A.**, and Clarke, J. D. "Anaphora Resolution in Machine Translation",  
Scientific Khyber, Vol.4, No.2, July, 1991, pp141-161.

**Khan, M. A.** "Text and the Translation of Natural Languages", Computer Review, Vol.  
1, No.4, 1991, pp53-60.

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**Conference Publications:**

Mukhtar,N., Shahzad, S., **Khan, M. A.**, and Nazir, S. “Ontology for feature based selection of web development tools”. Proceedings of Eighth International Conference on Digital Information Management (ICDIM 2013), Islamabad, Pakistan, September 10-12, 2013, pp 90-95

Fareen, N., **Khan, M. A.**, and Durrani, A., “Survey of Urdu OCR: An Offline Approach”, In Proceedings of Conference on Language and Technology, University of Engineering and Technology, Lahore, Nov. 8-10, 2012

Ahmad, Z., **Khan, M. A.**, Orakzai, J. Z. K., Ali, R., and Ahmad, I., “A Computational Multilingual Text Constituent Splitter and Phrasing: A Case of Pashto Language” In Proceedings of Conference on Language and Technology, University of Engineering and Technology, Lahore, Nov. 8-10, 2012

**Khan, M. A.**, and Zuhra, F., “Role of Corpus in Anaphora Resolution” Corpus Linguistics 2011 – Discourse and Corpus Linguistics, July 20-22, University of Birmingham

Ali, R., Amir, M., and **Khan, M.A.**, “Developing Pashto Treebank”, in *International Conference on Computer Networks & Information Technology (ICCNIT)*, University of Peshawar, Pakistan, 2011.

<http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=6020939&tag=1>

Ahmad, Z., **Khan, M. A.**, Ali, R., Ahmad, I., and Amir, M., “Evolving Web Corpus: Text Powered by Non Text” Conference on Language and Technology (CLT), 2010.

Ali, A., and **Khan, M. A.**, “Knowledge Representation of Urdu Text Using Predicate Logic” In Proceedings of IEEE ICET 2010, National University of Computer and Emerging Sciences, Islamabad Campus, October 18-19, 2010.

Saboor, A., and **Khan, M. A.**, “Lexical-Semantic Divergence in Urdu-to-English Example Based Machine Translation” In Proceedings of IEEE ICET 2010, National University of Computer and Emerging Sciences, Islamabad Campus, October 18-19, 2010.

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Bilal, M., **Khan, M. A.**, and Ali, R., “Identification of Syntactic Ambiguities in Pashto Text” In Proceedings of IEEE ICET 2009, National University of Computer and Emerging Sciences, Islamabad Campus, October 19-20, 2009.

Ali, A., and **Khan, M. A.** “Selecting Predicate Logic for Knowledge Representation by Comparative Study of Knowledge Representation Schemes” In Proceedings of IEEE ICET 2009, National University of Computer and Emerging Sciences, Islamabad, October 19-20, 2009.

**Khan, M. A.** and Zuhra, F., “A Corpus-Based Study of Pashto” In Proceedings of “Corpus Linguistics 2009”, University of Liverpool, UK, July 20-23, 2009.

Khan, M. A., **Khan, M. A.**, Habib, A., and Ali, M. N., “Corpus Based Mapping of Urdu Characters for Cell Phones” In Proceedings of Conference on Language and Technology 2009 (CLT09), National University of Computer and Emerging Sciences, Lahore Campus, January 22-24, 2009.

Khan, M. A., **Khan, M. A.**, and Ali, M. N., “Design of Urdu Virtual Keyboard” In Proceedings of Conference on Language and Technology 2009 (CLT09), National University of Computer and Emerging Sciences, Lahore Campus, January 22-24, 2009.

Zuhra, F., and **Khan, M. A.** “A Corpus-Based Finite State Morphological Analyzer for Pashto”  
In Proceedings of Conference on Language and Technology 2009 (CLT09), National University of Computer and Emerging Sciences, Lahore Campus, January 22-24, 2009.

Ali, R., **Khan, M. A.**, and Ali, M. “Reflexive Anaphora Resolution in Pashto Discourse” In Proceedings of Conference on Language and Technology 2009 (CLT09), National University of Computer and Emerging Sciences, Lahore Campus, January 22-24, 2009.

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**Mohammad Abid Khan**

Professor of Computer Science & Dean Faculty of Numerical and Physical Sciences

Department of Computer Science, University of Peshawar, Pakistan.

Phone:(Off) 091/9216045, 091/9216701-20, Ext. 3129

Mobile No. 0302-5197931

(e-mail) [mabid@upesh.edu.pk](mailto:mabid@upesh.edu.pk)

Khan, S. A., and **Khan, M. A.** “Computation of Gender of Urdu Nouns” In Proceedings of Conference on Language and Technology 2009 (CLT09), National University of Computer and Emerging Sciences, Lahore Campus, January 22-24, 2009.

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Ali, R., **Khan, M. A.**, and Ahmad, R. “ Implementation of the Rule-based Approach for the Resolution of Strong Personal Anaphora in Pashto Discourse“ In Proceedings of IEEE-INMIC 2008, Bahria University, Karachi Campus, December 23-24, 2008.

Ali, R. **Khan, M. A.**, Bilal, M. and Rabbi, I. “Reciprocal Anaphora Resolution in Pashto Discourse” In Proceedings of 4th IEEE International Conference on Emerging Technologies (IEEE—ICET2008)”, College Of Electrical & Mechanical Engineering (CEME), NUST, Rawalpindi 46000, Pakistan, October 18-19, 2008.

**Khan, M. A.**, and Nasir J. A. “Distributive Anaphora Resolution in Urdu Discourse” In Proceedings of 4th IEEE International Conference on Emerging Technologies (IEEE—ICET2008)”, College Of Electrical & Mechanical Engineering (CEME), NUST, Rawalpindi 46000, Pakistan, October 18-19, 2008.

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Rabbi, I., **Khan, M. A.**, and Ali, R., "Developing a Tagset for Pashto Part of Speech Tagging" In Proceedings of Second International Conference on Electrical Engineering

**Mohammad Abid Khan**

Professor of Computer Science & Dean Faculty of Numerical and Physical Sciences  
Department of Computer Science, University of Peshawar, Pakistan.  
Phone:(Off) 091/9216045, 091/9216701-20, Ext. 3129  
Mobile No. 0302-5197931

(e-mail) [mabid@upesh.edu.pk](mailto:mabid@upesh.edu.pk)

(ICEE 2008), 25-26 March 2008, University of Engineering and Technology, Lahore  
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Ali, M. N., **Khan M. A.** and Khan, M. A., "An Optimal Order of Factors for the  
Computational Treatment of Personal Anaphoric Devices in Urdu Discourse" Accepted  
in IJCNLP 2008, Workshop on NLP for Less Privileged Languages, January 11, 2008,  
IIIT, Hyderabad, India  
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Ali, S., Rauf, A., and **Khan, M. A.**, "Insertion Anomaly Associated with Row Level  
Security in Relational Databases" Presented in UITCS ACM Technical Conference on  
Computing "UATCC07" held on November 9-10, 2007, Usman Institute of  
Technology, Karachi, Pakistan

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Discourse"  
In Proceedings of Third International Conference on Emerging Technologies, held on  
November 12-13, Riphah International University, Islamabad, Pakistan

Zuhra, F., and **Khan, M. A.** "Towards Processing of Pashto Pronouns by Computer"  
In Proceedings of Conference on Language and Technology 2007, held on August 7-11,  
Bara Gali Summer Campus, University of Peshawar, Pakistan

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Pashto"  
In Proceedings of Conference on Language and Technology 2007, held on August 7-11,  
Bara Gali Summer Campus, University of Peshawar, Pakistan

Zuhra, F., and **Khan, M. A.** "The Computational Treatment of the Present Tense Verbs  
in Pashto" In Proceedings of Conference on Language and Technology 2007, held on  
August 7-11, Bara Gali Summer Campus, University of Peshawar, Pakistan

**Khan, M. A.**, Ali, M. N. and Khan, M. A. "Resolution of Relative Anaphoric Devices in  
Urdu Discourse for Effective Machine Translation" In Proceedings of Conference on  
Language and Technology 2007, held on August 7-11, Bara Gali Summer Campus,  
University of Peshawar, Pakistan

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Pronouns in Urdu" In Proceedings of Conference on Language and Technology 2007,  
held on August 7-11, Bara Gali Summer Campus, University of Peshawar, Pakistan

**Mohammad Abid Khan**

Professor of Computer Science & Dean Faculty of Numerical and Physical Sciences  
Department of Computer Science, University of Peshawar, Pakistan.  
Phone:(Off) 091/9216045, 091/9216701-20, Ext. 3129  
Mobile No. 0302-5197931

(e-mail) [mabid@upesh.edu.pk](mailto:mabid@upesh.edu.pk)

Din, A., and **Khan, M. A.** "Syntax Based De-cliticization of Pashto Text for Better Machine Translation" In Proceedings of Conference on Language and Technology 2007, held on August 7-11, Bara Gali Summer Campus, University of Peshawar, Pakistan

**Khan, M. A.,** Khan, M.A., and Ali, M. N. "Algorithm for Subject Zero Pronoun Detection and Restoration of Urdu Discourse" In Proceedings of "Computational Approaches to Arabic Script-Based Languages" Stanford University, USA, July 21-22, 2007

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**Khan, M. A.,** and Zuhra F. "A General-Purpose Monitor Corpus of Written Pashto" Presented in "Corpus Linguistics 2007", University of Birmingham, UK, July 28-30, 2007

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**Khan, M. A.** "The Computational Morphology of Pashto Noun–The Classification" Accepted in The 19<sup>th</sup> European Conference on Modern South Asian Studies, Leiden, the Netherlands, 27-30 June 2006

**Khan M. A.** Ali, M. N., and Khan M.A. "Treatment of Pronominal Anaphoric Devices in Urdu Discourse" In Proceedings of Second International Conference on Emerging Technologies, Peshawar, Pakistan, November 13-14, 2006.

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**Khan, M. A.,** and Zuhra, F. "Computational-Based Study of the Past Tense Verbs in Pashto" Accepted in SALA-26, to be held on December 19-21, Mysore, India.

**Khan, M. A.** "Machine Translation Beyond Sentence Boundaries" In Proceedings of: Workshop on International Proofing Tools and language Technology, Patras, Greece, July 1-2, 2004.

**Khan, M. A.,** and Din, J. "The Use of Transformational Grammar in the Syntax of Urdu" Presented in the conference "Information Technology-the key to Development in the 21st Century", Organized by Pakistan Computer Bureau, Islamabad, Pakistan, Nov. 13-14, 2000

**Khan, M. A.,** and Qasim, M. "The computational Syntax of Urdu" Appeared in the proceedings of: First National Symposium on Artificial Intelligence, Bara Gali Summer Camp., University of Peshawar, August 10-13, 1991.



**Mohammad Abid Khan**

Professor of Computer Science & Dean Faculty of Numerical and Physical Sciences

Department of Computer Science, University of Peshawar, Pakistan.

Phone:(Off) 091/9216045, 091/9216701-20, Ext. 3129

Mobile No. 0302-5197931

(e-mail) [mabid@upesh.edu.pk](mailto:mabid@upesh.edu.pk)

**Khan, M. A.**, and Clarke, J. D. "Basic Discourse-Form Technique",  
Appeared in the proceedings of: Computer and Translation -- 89, International Seminar,  
Nov. 27 to Dec. 2, 1989, Tbilisi, Georgia, USSR, pp166-168.

**Other Publications:**

- 1) Worked as Convener of the committee for writing a book of Computer Studies for secondary classes which is published by the N.W.F.P. Text Book Board Peshawar in 1991.
- 2) Published a Travel Book entitled "China via Khunjarab" (in Urdu), 1993.
- 3) Book entitled: "Text-based Machine Translation", 1995.
- 4) Book entitled "Mirror and Faces" (in Urdu), 2000.

**Membership of Program Committee/Technical Committee for some recent Conferences/Workshops**

1. 10th International Conference on Frontiers of Information Technology (FIT)  
December 17 - 19, 2012, Islamabad
2. The 10th Workshop on Asian Language Resources in conjunction with COLING  
December 9, 2012, Mumbai, India
3. Third Workshop on South and South Asian Natural Language Processing,  
COLING, December 8-15, 2012, Mumbai, India,
4. Conference on Language and Technology, University of Engineering and  
Technology, Lahore, 9-10 November, 2012
5. 8<sup>th</sup> International Conference on Emerging Technologies (ICET), Mohammad Ali  
Jinnah University, 8-9 October, 2012

**Mohammad Abid Khan**

Professor of Computer Science & Dean Faculty of Numerical and Physical Sciences

Department of Computer Science, University of Peshawar, Pakistan.

Phone:(Off) 091/9216045, 091/9216701-20, Ext. 3129

Mobile No. 0302-5197931

(e-mail) [mabid@upesh.edu.pk](mailto:mabid@upesh.edu.pk)

6. Asia Pacific Corpus Linguistics Conference, University of Auckland, February 15<sup>th</sup> to 19<sup>th</sup>, 2012
7. Second Workshop on South and South Asian Natural Language Processing, November 8, 2011, Chiang Mai, Thailand
8. International Conference on Computer Networks and Information Technology, Bara Gali Summer Campus, University of Peshawar, 11-13<sup>th</sup> July, 2011
9. International Conference on Information Systems for Indian Languages (ICISIL), Department of Computer Science, Punjabi University, Patiala, March 9-11, 2011
10. Conference on Language and Technology, National Language Authority 22-24<sup>th</sup> October, 2010
11. First Workshop on South and South Asian Natural Language Processing WSSANLP – collocated with COLING 2010, Beijing, China
12. 6<sup>th</sup> International Conference on Emerging Technologies (ICET), National University of Computer and Emerging Sciences, Islamabad, October 18-19, 2010
13. Conference on Language and Technology (CLT12), University of Engineering and Technology, Lahore, November 9-10, 2012.
14. 5<sup>th</sup> Conference on Language and Technology 2014, 13-15 November, 2014. DHA Suffa University, Karachi

**Past/present Membership of Board of Studies/Academic Council/Selection Board :**

1. Department of Computer Science, University of Peshawar
2. Department of Library and Information Science, University of Peshawar
3. Department of Computer Science, Quaid-i-Azam University, Islamabad
4. Department of Computer Science, International Islamic University, Islamabad
5. Department of Mathematics, Statistics and Computer Science, Allama Iqbal Open University, Islamabad
6. Department of Computer Science, Hazara University
7. Academic Council, University of Engineering and Technology, Peshawar
8. Academic Council, NUCES
9. Academic Council, University of Peshawar
10. Selection Board, UET, Peshawar
11. Selection Board, Agricultural University, Peshawar

**Mohammad Abid Khan**

Professor of Computer Science & Dean Faculty of Numerical and Physical Sciences  
Department of Computer Science, University of Peshawar, Pakistan.  
Phone:(Off) 091/9216045, 091/9216701-20, Ext. 3129  
Mobile No. 0302-5197931

(e-mail) [mabid@upesh.edu.pk](mailto:mabid@upesh.edu.pk)

**Past/present Membership of Senate/Syndicate/Other bodies**

Senate University of Peshawar  
Syndicate, University of Peshawar  
PTCL R&D Fund Committee  
National Computing Education Accreditation Council, Higher Education Commission,  
Pakistan  
Board for the Society for Natural Language Processing, Pakistan

**Languages Known:**

S.No	NAME	SPOKEN	READ	WRITTEN
1	ENGLISH	VERY GOOD	EXCELLENT	EXCELLENT
2	URDU	VERY GOOD	EXCELLENT	VERY GOOD
3	PUSHTO	EXCELLENT	VERY GOOD	VERY GOOD
4	TURKI	FAIR	FAIR	FAIR
5	FRENCH	FAIR	A LITTLE	A LITTLE
6	ARABIC	GOOD	GOOD	GOOD

**Countries Visited:**

- |                       |                |            |                 |
|-----------------------|----------------|------------|-----------------|
| 1. The United Kingdom | 2. France      | 3. Belgium | 4. Luxembourg   |
| 5. The Netherlands    | 6. Switzerland | 7. Germany | 8. Saudi Arabia |
| 9. China              | 10. Jordan     | 11. Syria  | 12. Russia      |
| 13. Latvia            | 14. UAE        | 15. Greece | 16. Qatar       |
| 17. Tunisia           |                |            |                 |

**Other Activities:**

Member, National Review Committee for Computer Studies, Curriculum Wing, Ministry of Education, Government of Pakistan, 1995-96 (and 2000).

Chairman of the committee for working out IT Policy Framework for NWFP, Pakistan.

**Mohammad Abid Khan**

Professor of Computer Science & Dean Faculty of Numerical and Physical Sciences

Department of Computer Science, University of Peshawar, Pakistan.

Phone:(Off) 091/9216045, 091/9216701-20, Ext. 3129

Mobile No. 0302-5197931

(e-mail) [mabid@upesh.edu.pk](mailto:mabid@upesh.edu.pk)

**Courses Taught:**

A) University of Peshawar (Pakistan)

1. Artificial Intelligence
2. Fifth Generation Languages (Prolog and LISP)
3. Natural Language Processing
4. Expert System
5. Numerical Analysis
6. Operational Research
7. Logic Design
8. Databases
9. Discrete Mathematics
10. FORTRAN, COBOL, BASIC
11. Design and Analysis of Algorithms
12. Human Computer Interaction
13. Corpus Linguistics and Natural Language Engineering
14. Machine Translation
15. Research Methods
16. Morphology
17. Syntax

B) Al-Isra University (Jordan)

1. Data Structures
2. Operating Systems
3. Computer Architecture
4. Algorithm Theory
5. Information Retrieval
6. Compiler Construction
7. Artificial Intelligence
8. Natural Language Processing
9. Labs (DOS, WINDOWS, UNIX, ORACLE)

C) National University of Computer and Emerging Sciences

1. Introduction to Computers (including C++)
2. Discrete Mathematics
3. Data Structures
4. Artificial Intelligence

**Mohammad Abid Khan**

Professor of Computer Science & Dean Faculty of Numerical and Physical Sciences

Department of Computer Science, University of Peshawar, Pakistan.

Phone:(Off) 091/9216045, 091/9216701-20, Ext. 3129

Mobile No. 0302-5197931

(e-mail) [mabid@upesh.edu.pk](mailto:mabid@upesh.edu.pk)

**References**

1. Prof. Dr. Sarmad Hussain, Center for Language Engineering, UET Lahore Campus, Pakistan, email: [sarmad@cantab.net](mailto:sarmad@cantab.net)
2. Prof. Dr. Jamil Ahmad, Rector, Abasyn University, Peshawar