

## Rahman Ali, PhD

Assistant Professor in Computer Science, Quaid-e-Azam College of Commerce & Director Distance Education,

University of Peshawar, Peshawar, KPK, Pakistan

Cell# +92 - 3469623386

Office#: +92 – 91 9216757

Email: rahmanac1@gmail.com, rehmanali@upesh.edu.pk

Skype: rahmanali8

Google Scholar:

<https://scholar.google.co.kr/citations?user=E04kf8IAAAAJ&hl=en>

Research gate:

[https://www.researchgate.net/profile/Rahman\\_Ali4](https://www.researchgate.net/profile/Rahman_Ali4)



## Summary [Impact factor 46.789, Award of best PhD Thesis, 23 Publications, 22 conferences, 01 Patent, 01 Book, 11 years teaching and research experience]

- Currently working as an Assistant Professor at Quaid-e-Azam College of Commerce, University of Peshawar and Director Distance Education, University of Peshawar.
- Have been awarded PhD degree in Computer Engineering from Kyung Hee University, South Korea (August 17, 2016) specialized in the area of machine learning with PhD dissertation title “**accurate classifier selection methodology using multi-criteria decision making and meta-learning**”.
- Have earned “**Best PhD thesis Award**” among the whole Engineering faculty of Kyung Hee University, South Korea in Spring 2016 Session.
- Have more than **5 years research experience** in the areas of **machine learning, data mining, decision support systems, recommender systems and natural language processing**.
- Have more than **11 years total (teaching+research) experience** at graduate and undergraduate levels in government sector universities and colleges of Pakistan.
- Have **23 journals** publications with **total impact factor of 46.789, 2 Korean patents, 22 international conference** papers, one **patent** and **one textbook** for XII Grade Computer Science, KPK Textbook Board.
- Have worked as **research assistant** at Kyung Hee University, South Korea and University of Maine, Le Mans, France in various research projects related to the design and development of **Ubiquitous Health and Wellbeing** applications and **Machine Translation System**, respectively.
- Have presented papers in **UCAmI - IWAAL (2014) and ACM IMCOM 2018** International Conferences held in Ireland UK and Langkawi Malaysia, respectively.

## Research Experience

### I. Journal Publication

S.No	Year	Detail: Authors, Title, Journal, Indexing & Impact Factor
23	2018	Maqbool Ali, <b>Rahman Ali</b> , Wajahat Ali Khan, Caren Han, Jae Hon bong, Tae Ho Hur, Doyan Kim, Sungyoung Lee, Byeong.Ho Kang. “A data-driven knowledge acquisition system: An end-to-end knowledge engineering process for generating production rules”, <i>IEEE Access</i> , Accepted (Feb 22, 2018). [SCIE, IF 3.24]
22	2018	Jamil Hussain, Anees Ul Hassan, <b>Rahman Ali</b> , Muhammad Afzal, Shujaat Hussain, Jaehun Bang, Oresti Banos, Muhammad Bilal Amin, Byeong Ho Kang and Sungyoung Lee, “Model-Driven Adaptive User Interface based on Context and User Experience Evaluation”, <i>Journal of Multimodal User Interfaces</i> , <i>Springer</i> (2018) 12: 1. <a href="https://doi.org/10.1007/s12193-018-0258-2">https://doi.org/10.1007/s12193-018-0258-2</a> [SCIE-, IF. 1.031]
21	2018	Muhammad Afzal, Ph.D. Imran Ali, <b>Rahman Ali</b> , Maqbool Hussain, Taqdir Ali, Wajahat Ali Khan, Muhammad Bilal Amin, Oresti Banos, Sungyoung Lee. "Personalization of wellness recommendations using contextual interpretation". <i>Expert Systems with Application</i> , <i>Elsevier</i> . Volume 96, 15 April 2018, Pages 506-521. <a href="https://doi.org/10.1016/j.eswa.2017.11.006">https://doi.org/10.1016/j.eswa.2017.11.006</a> [SCIE, IF. 3.92].

- 
- 20 2018 **Rahman Ali**, Muhammad Afzal, Muhammad Sadiq, Maqbool Hussain, Taqdir Ali, Asad Masood Khatak, Sungyoung Lee. "Knowledge-Based Reasoning and Recommendation Framework for Intelligent Decision Making". Expert Systems, *Wiley Online Library*, 7 February 2018. <https://doi.org/10.1111/exsy.12242> [*SCIE, IF. 1.18*].
- 19 2017 Rashid Ahmad, Mohammad Abid Khan, Rahman Ali, "Identification and Resolution of Ambiguities using AV Mapping Algorithm for Query Transformation", *Pakistan Academy of Sciences*, Vol. 54 (4), 347-364 [*"X" Category, IF. 0.0*].
- 18 2017 Taqdir Ali, Maqbool Hussain, Wajahat Ali Khan, Muhammad Afzal, Jamil Hussain, **Rahman Ali, et al.**, "Multi-model-based interactive authoring environment for creating shareable medical knowledge", Computer Methods and Programs in Biomedicine, *Elsevier*, Volume 150, October 2017, Pages 41-72 .  
<https://doi.org/10.1016/j.cmpb.2017.07.010> [*SCIE, IF. 2.503*].
- 17 2016 **Rahman Ali**, Sungyoung Lee, Tae Choong Chung. "An accurate multi-criteria decision making methodology for recommending optimum performance machine learning algorithm(s)". Expert System with Application, *Elsevier* 1;71:257-78, April 2017. <https://doi.org/10.1016/j.eswa.2016.11.034> [*SCIE, IF. 3.92*].
- 16 2016 **Rahman Ali**, Siddiqi, Muhammad Hameed, Muhammad Afzal, Maqbool Hussain, Maqbool Ali, and Sungyoung Lee, Byeong Ho Kang. "Multimodal Hybrid Reasoning Methodology for Personalized Wellbeing Services". Computers in Biology and Medicine, *Elsevier*, Volume 69, 1 February 2016, Pages 10-28.  
<https://doi.org/10.1016/j.combiomed.2015.11.013> [*SCI, IF. 1.83*].
- 15 2015 **Rahman Ali**, Muhammad Hameed Siddiqi, and Sungyoung Lee. "Rough set-based approaches for discretization: a compact review." Artificial Intelligence Review", *Springer*, August 2015, Volume 44, [Issue 2](#), pp 235–263.  
<https://doi.org/10.1007/s10462-014-9426-2> [*SCI, IF: 2.63*].
- 14 2015 **Rahman Ali**, Siddiqi, Muhammad Hameed, Jamil Ahmad, Hussain Maqbool, and Sungyoung Lee. "H2RM: A Hybrid Rough Set-based Reasoning Model for Diagnosis and Management of Diabetes Mellitus". Sensors, *MDPI*, Vol.15, Issue 7, pp.15921-15951, 3rd July 2015.  
<https://doi.org/10.3390/s150715921> [*SCIE, IF. 2.677*].
- 13 2015 **Rahman Ali**, Siddiqi, Muhammad Hameed, Muhammad Idris, and Sungyoung Lee. "GUDM: Automatic Generation of Unified Datasets for Learning and Reasoning in Healthcare". Sensors, *MDPI*, Vol.15, Issue 7, pp.15772-15798., 2nd July 2015.  
<http://doi.org/10.3390/s150715772> [*SCIE, IF. 2.677*]
- 12 2015 M Hussain, M Afzal, T Ali, **Rahman Ali**, WA Khan, A Jamshed, S Lee, BH Kang, and Sungyoung Lee. "Data-driven knowledge acquisition, validation, and transformation into HL7 Arden Syntax". Artificial intelligence in medicine, *Elsevier*. 2015.09.008, 28th Oct 2015.  
<https://doi.org/10.1016/j.artmed.2015.09.008> [*SCI, IF. 2.009*].
- 11 2015 Siddiqi, Muhammad Hameed, **Rahman Ali**, Adil Mehmood Khan, Young-Tack Park, and Sungyoung Lee. "Human Facial Expression Recognition Using Stepwise Linear Discriminant Analysis and Hidden Conditional Random Fields. "IEEE Transactions on Image Processing", *IEEE*, Vol.24, No.4, pp.1386-1398, 24 February 2015.  
<http://doi.org/10.1109/TIP.2015.2405346> [*SCI, IF: 4.828*].
- 10 2015 Ahmed, Ishtiaq, **Rahman Ali**, Donghai Guan, Young-Koo Lee, Sungyoung Lee, and TaeChoong Chung. "Semi-supervised learning using frequent itemset and ensemble learning for SMS classification." Expert Systems with Applications", *Elsevier*, Vol. 42, no. 3 (15 February 2015): 1065-1073.  
<http://www.sciencedirect.com/science/article/pii/S0957417414005363> [*SCIE, IF: 3.92*].
- 9 2014 Siddiqi, Muhammad Hameed, **Rahman Ali**, Muhammad Idris, Adil Mehmood Khan, Eun Soo Kim, Min Cheol Whang, and Sungyoung Lee. "Human facial expression recognition using curvelet feature extraction and normalized mutual information feature selection, "Multimedia Tools and Applications", *Springer*, (ISSN: 1380-7501, Volume 75 Issue 2, January 2016, Pages 935-959  
<http://link.springer.com/article/10.1007/s11042-014-2333-3> ) [*SCIE, IF: 1.53*].
- 8 2014 Siddiqi, Muhammad Hameed, **Rahman Ali**, Abdul Sattar, Adil Mehmood Khan, and Sungyoung Lee. "Depth Camera-Based Facial Expression Recognition System Using Multilayer Scheme." IETE Technical Review", *Taylor & Francis Online*, Vol.31, no. 4 (14 Aug 2014): 277-286.  
<http://link.springer.com/article/10.1007/s11042-014-2333-3> [*SCIE, IF: 1.33*].
- 7 2014 Siddiqi, Muhammad Hameed, **Rahman Ali**, Adil Mehmood Khan, Eun Soo Kim, Gerard Junghyun Kim, and Sungyoung Lee. "Facial expression recognition using active contour-based face detection, facial movement-based feature extraction, and non-linear feature selection. "Multimedia Systems", *Springer*, (20 July 2014): 1-15.

---

<http://link.springer.com/article/10.1007/s00530-014-0400-2> [SCI, IF: 2.21].

- 6 2014 Fahim, Muhammad, Muhammad Idris, **Rahman Ali**, Christopher Nugent, Byeong Kang, Eui-Nam Huh, and Sungyoung Lee. "ATHENA: A Personalized Platform to Promote an Active Lifestyle and Wellbeing Based on Physical, Mental and Social Health Primitives." *Sensors*, **MDPI**, Vol. 14, no. 5 (2014): 9313-9329. <http://www.mdpi.com/1424-8220/14/5/9313> [SCIE, IF. 2.677].
- 5 2014 Siddiqi, Muhammad Hameed, **Rahman Ali**, Md Sohel Rana, Een-Kee Hong, Eun Soo Kim, and Sungyoung Lee. "Video-based human activity recognition using multilevel wavelet decomposition and stepwise linear discriminant analysis." *Sensors*, **MDPI**, Vol. 14, no. 4 (4 Apr2il 2014): 6370-6392. <http://www.mdpi.com/1424-8220/14/5/9313> [SCIE, IF. 2.677].
- 4 2013 **Rahman Ali**, Mohammad Abid Khan, "Second Order Predicate Logic for Pashto Knowledge Representation", Pashto quarterly Journal, Pashto Academy, University of Peshawar, [**"Z" Category, IF. 0.0**], 2013.
- 3 2011 Mohammad Bilal, Mohammad Abid Khan, **Rahman Ali**, "An adaptive approach of syntactic ambiguity resolution in Pashto", African Journal of Mathematics and Computer Science Research, [**Non-Index, IF. 0.0**], Vol. 4(2), pp. 55–63, February 2011. <http://www.academicjournals.org/AJMCSR>
- 2 2011 **Rahman Ali**, Mohammad Abid Khan, Zaheer Ahmad, Ibrar Ahmad, Muhammad Amir, "A State-of-the Art Review of Corpus Linguistics Journals", *PUTAJ Science*,, [**Non-Index, IF. 0.0**], Vol. 18, pp. 225-240, ISSN 2219-2468, University of Peshawar, Pakistan, 2011. <http://putaj.org/index.php/science/issue/view/6>
- 1 2011 **Rahman Ali**, Mohammad Abid Khan, "Computational Treatment of Zero Anaphora in Pashto Language", *Bilingual Quarterly Research Journal, Pashto*, [**"Z" Category, IF. 0.0**], 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>
- 

## II. Patents

---

- | S.No | Year | Detail: Authors, Title, Scope   |
|------|------|---|
| 1    | 2016 | <b>Sungyoung Lee, Rahman Ali</b> . "Unified Data Modeling for Healthcare Data", Applicant: Kyung Hee University Industry-Academy Collaboration Foundation, Commissionaire, Korean Intellectual Property Act, Registration No.: 10-1609816, <b>Registration Date: March 31, 2016</b> . <a href="http://uclab.khu.ac.kr/resources/publication/DP_555.pdf">http://uclab.khu.ac.kr/resources/publication/DP_555.pdf</a> |

## III. Conference Papers

---

- | SNo | Year of Publication | Detail: Authors, Title, Journal, Indexing   |
|-----|---------------------|---|
| 22  | 2017                | <b>Rahman Ali</b> , Asad Masood Khatak, Chow Francis, Sungyoung Lee, "A Case-Based Meta-Learning and Reasoning Framework for Classifiers Selection", Accepted in 11 <sup>th</sup> International Conference on Ubiquitous Information Management and Communication, (ACM IMCOM 2018), LANGKAWI, Malaysia, Jan 5-7, 2018.   |
| 21  | 2015                | Wajahat Ali Khan, Muhammad Idris, Taqdir Ali, <b>Rahman Ali</b> , Shujaat Hussain, Maqbool Hussain, Muhammad Bilal Amin, Asad Masood Khattak, Yuan Weiwei, Muhammad Afzal, Sungyoung Lee and Byeong Ho Kang, " <b>Correlating Health and Wellness Analytics for Personalized Decision Making</b> ", 17th International Conference on E-health Networking, Application & Services (Healthcom 2015), Oct 14-17, 2015 <a href="http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=7454508&amp;tag=1">http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=7454508&amp;tag=1</a>                    |
| 20  | 2015                | Wajahat Ali Khan, Muhammad Bilal Amin, Oresti Banos, Taqdir Ali, Maqbool Hussain, Muhammad Afzal, Shujaat Hussain, Jamil Hussain, Rahman Ali, Maqbool Ali, Dongwook Kang, Jaehun Bang, Tae Ho Hur, Bilal Ali, Muhammad Idris, Asif Razzaq, Sungyoung Lee and Byeong Ho Kang, "Mining Minds: Journey of Evolutionary Platform for Ubiquitous Wellness", 12th International Conference on Ubiquitous Healthcare (u-Healthcare 2015), Osaka, Japan, Nov 30- Dec 02, 2015 <a href="http://uclab.khu.ac.kr/resources/publication/C_335.pdf">http://uclab.khu.ac.kr/resources/publication/C_335.pdf</a> |
| 19  | 2015                | Banos, O., Bilal Amin, M., Ali Khan, W., Afzel, M., Ahmad, M., Ali, M., Ali, T., <b>Ali, R.</b> , Bilal, M., Han, M., Hussain, J., Hussain, M., Hussain, S., Hur, T. H., Bang, J. H., Huynh-The, T., Idris, M., Kang, D. W., Park, S. B., Siddiqui, M., Vui, L. B., Fahim, M., Khattak, A. M., Kang, B. H. and Lee, S, "An Innovative Platform for Person-Centric Health and Wellness   |
-

- 
- Support", Proceedings of the International Work-Conference on Bioinformatics and Biomedical Engineering (IWBBIO 2015), Granada, Spain, April 15-17, 2015.  
[http://link.springer.com/chapter/10.1007%2F978-3-319-16480-9\\_14](http://link.springer.com/chapter/10.1007%2F978-3-319-16480-9_14)
- 18 2015 **Rahman Ali**, Muhammad Hameed Siddiqi, Byeong Ho Kang and Sungyoung Lee, "KARE: A Hybrid Reasoning Approach for Promoting Active Lifestyle", ACM-IMCOM (ICUIMC) 2015, Jan 8-10, 2015
- 17 2014 **Rahman Ali**, Muhammad Hameed Siddiqi, Muhammad Idris, Byeong Ho Kang, and Sungyoung Lee, "The Prediction of diabetes Mellitus Based on Boosting Ensemble Modeling", 8th International Conference on Ubiquitous Computing & Ambient Intelligence (UCAmI 2014), Belfast, United Kingdom, December 2-5, 2014.  
[http://link.springer.com/chapter/10.1007%2F978-3-319-13102-3\\_6](http://link.springer.com/chapter/10.1007%2F978-3-319-13102-3_6)
- 16 2014 Muhammad Hameed Siddiqi, **Rahman Ali**, Byeong Ho Kang and Sungyoung Lee, "A New Feature Extraction Technique for Human Facial Expression Recognition Systems using Depth Camera", 6th International Work-conference on Ambient Assisted Living (IWAAL 2014), Belfast, United Kingdom, December 2-5, 2014.  
[http://link.springer.com/chapter/10.1007%2F978-3-319-13105-4\\_21](http://link.springer.com/chapter/10.1007%2F978-3-319-13105-4_21)
- 15 2014 Muhammad Hameed Siddiqi, **Rahman Ali**, Ibrahiem M. M. El Emary and Sungyoung Lee, "An Unsupervised Technique for Automatic Face Detection and Extraction", 2014 International Conference on Information Science, Electronics and Electrical Engineering (IEEE 2014), Sapporo City, Hokkaido, Japan, April 26-28, 2014.  
[http://ieeexplore.ieee.org/xpls/abs\\_all.jsp?arnumber=6946224&tag=1](http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=6946224&tag=1)
- 14 2011 **Rahman Ali**, Muhammad Amir, Mohammad Abid Khan "Developing Pashto Treebank", in *International Conference on Networks & Information Technology (ICCNIT)*, 2011. University of Peshawar, Pakistan, 2011.  
<http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=6020939&tag=1>
- 13 2010 Zaheer Ahmad, Mohammad Abid Khan, **Rahman Ali**, Ibrar Ahmad, Muhammad Amir, "Evolving Web Corpus Text Powered by Non Text", in Conference on Language and Technology, 2010 (CLT10), Islamabad, Pakistan, 2010.  
<http://www.snlp.org.pk/clt10/papers/Evolving%20Web%20Corpus%20Text%20Powered%20by%20Non%20Text.pdf>
- 12 2009 Mohammad Bilal, Mohammad Abid Khan, **Rahman Ali**, "Identification of Syntactic Ambiguity in Pashto language", Accepted in *5<sup>th</sup> International Conference on Emerging Technology (IEEE-ICET2009)*, National University of Computer and Emerging Sciences, Islamabad, Pakistan, October 19-20, 2009.  
<http://www.ieeeicet.org/CallForPapers.htm>
- 11 2009 **Rahman Ali**, Mohammad Abid Khan M.A, Mushtaq Ali, "Reflexive Anaphora Resolution in Pashto Discourse", in proceeding *2<sup>nd</sup> Conference on Language and Technology (CLT2009)*, National University of Computer and Emerging Sciences, Lahore, Pakistan, 22-24 January, 2009, pp. 41-45.  
<http://www.crupl.org/clt09/download/Papers/Paper6.pdf>
- 10 2009 Rashid Ahmad, Mohammad Abid Khan, **Rahman Ali**, "Efficient Transformation of Natural Language Query to SQL", in proceeding *2<sup>nd</sup> Conference on Language and Technology (CLT2009)*, National University of Computer and Emerging Sciences, Lahore, Pakistan, 22-24 January, 2009, pp 53-60.  
<http://www.crupl.org/clt09/download/Papers/Paper8.pdf>
- 9 2009 Ihsan Rabbi, Mohammad Abid Khan, **Rahman Ali**, "Rule-based Part of Speech Tagging for Pashto language", in proceeding *2<sup>nd</sup> Conference on Language and Technology (CLT2009)*, National University of Computer and Emerging Sciences, Lahore, Pakistan, 22-24 January 2009, pp 82-87.  
<http://www.crupl.org/clt09/download/Papers/Paper12.pdf>
- 8 2008 Mushtaq Ali, Mohammad Abid Khan, **Rahman Ali**, "Ellipses Resolution in WH-Construction in Pashto", in proceeding 12th IEEE International Multitopic Conference (IEEE **INMIC** 2008), Bahria University Karachi, Pakistan on 23-24 December 2008, pp 436-440.  
[http://www.ieeexplore.ieee.org/xpls/abs\\_all.jsp?arnumber=4777777](http://www.ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=4777777)
- 7 2008 **Rahman Ali**, Mohammad Abid Khan, Rashid Ahmad, "The Implementation of the Rule-based Approach for the Resolution of Strong Personal Pronouns in Pashto Discourse", in proceeding 12th IEEE International Multitopic Conference (IEEE **INMIC** 2008), Bahria University Karachi, Pakistan on 23-24 December 2008, pp 501-507.  
[http://www.ieeexplore.ieee.org/xpl/freeabs\\_all.jsp?arnumber=4777790](http://www.ieeexplore.ieee.org/xpl/freeabs_all.jsp?arnumber=4777790)
- 6 2008 **Rahman Ali**, Mohammad Abid Khan, Mohammad Bilal, Ihsan Rabbi, "Reciprocal Anaphora Resolution in Pashto Discourse", in proceeding *4th IEEE International Conference on Emerging Technologies (IEEE-ICET2008)*, College Of Electrical & Mechanical Engineering (EME), Rawalpindi 46000, Pakistan, October 18-19, 2008, pp 1-5.  
[http://www.ieeexplore.ieee.org/xpls/abs\\_all.jsp?arnumber=4777464](http://www.ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=4777464)
- 5 2008 **Rahman Ali**, Mohammad Abid Khan, Mohammad Bilal, Ihsan Rabbi, "Empirical Analysis of Pashto Text for Types of
-

Pashto Anaphora”, in *proceeding of International Conference on Information & Communication Technology (IC-ICT2008)*, University of Science & Technology, Bannu, Pakistan, pp 146-151.

[https://www.researchgate.net/publication/236461784\\_Empirical\\_Analysis\\_of\\_Pashto\\_Text\\_for\\_Types\\_of\\_Pashto\\_Anaphora](https://www.researchgate.net/publication/236461784_Empirical_Analysis_of_Pashto_Text_for_Types_of_Pashto_Anaphora)

[https://www.researchgate.net/publication/236461784\\_Empirical\\_Analysis\\_of\\_Pashto\\_Text\\_for\\_Types\\_of\\_Pashto\\_Anaphora](https://www.researchgate.net/publication/236461784_Empirical_Analysis_of_Pashto_Text_for_Types_of_Pashto_Anaphora)

4 2008 Ihsan Rabbi, Mohammad Abid Khan, **Rahman Ali**, Rashid Ahmad, “Theoretical Analysis of Pashto Phrases for the Creation of Parser”, in *proceeding of International Conference on Information & Communication Technology (IC-ICT2008)*, University of Science & Technology, Bannu, Pakistan, pp 137-140.

[https://www.researchgate.net/publication/236461795\\_Theoretical\\_Analysis\\_of\\_Pashto\\_Phrases\\_for\\_the\\_Creation\\_of\\_Parser](https://www.researchgate.net/publication/236461795_Theoretical_Analysis_of_Pashto_Phrases_for_the_Creation_of_Parser)

3 2008 **Rahman Ali**, Mohammad Abid Khan, Rashid Ahmad, Ihsan Rabbi, "Rule Based Personal References Resolution in Pashto Discourse for Better Machine Translation" In *Proceedings of Second International Conference on Electrical Engineering (ICEE 2008)*, 25-26 March 2008, University of Engineering and Technology, Lahore 54890, Pakistan, pp 57-62.

<http://www.ieeexplore.ieee.org/iel5/4547431/4553886/04553941.pdf>

2 2008 Ihsan Rabbi, Mohammad Abid Khan, **Rahman Ali**, "Developing a Tagset for Pashto Part of Speech Tagging", in *Proceedings of Second International Conference on Electrical Engineering (ICEE 2008)*, 25-26 March 2008, University of Engineering and Technology, Lahore 54890, Pakistan, pp.

<http://www.ieeexplore.ieee.org/iel5/4547431/4553886/04553909.pdf?arnumber=4553909>

1 2007 **Rahman Ali**, Mohammad Abid Khan, Ihsan Rabbi, "Strong Personal Anaphora Resolution in Pashto Discourse", in *Proceedings of Third International Conference on Emerging Technologies (ICET2007)*, Riphah International University, Islamabad, Pakistan, November 12-13, 2007, pp 148-154.

[http://www.ieeexplore.ieee.org/xpl/freeabs\\_all.jsp?arnumber=4516334](http://www.ieeexplore.ieee.org/xpl/freeabs_all.jsp?arnumber=4516334)

## V. Textbook Authorship

S.No	Year	Title	Detail: Authors, Title, Journal, Indexing
1	2016	Computer Science Grade XII – Text Book	<ul style="list-style-type: none"> <li>• It is a Text Book written for Higher Secondary School – Part II (F.Sc 2<sup>nd</sup> Year) under the umbrella of Khyber Pakhtunkhwa Textbook Board, Peshawar, Pakistan.</li> <li>• The main contents covered in the book include:               <ol style="list-style-type: none"> <li>1. Operating system its functions and process management (1 Chapter)</li> <li>2. System development life-cycle describing different steps of the software development (1 Chapter)</li> <li>3. Object-oriented programming using C++ (7 Chapters)</li> </ol> </li> </ul>

## Research/Work Experience (More than 5 Years)

• **PhD Scholar & Research Assistant. (Sep 2012- August 2016). Kyung Hee University, South Korea**

### A. PhD Research Scholar

- **Research Focused:** Worked in the area of selection of supervised machine learning algorithm(s) for classification problems using multi-criteria decision making and meta-learning. Additionally, have proposed rough set and hybrid reasoning methodologies for the design and development of prediction and recommendation systems in healthcare applications. The dissertation is mainly focused on the selection and design of accurate and appropriate classifier(s) for real-world classification problems on the basis of classifiers evaluation metrics and data meta-characteristics.
- **Achievements:** Published 4 SCI/SCIE research papers on the topics: reasoning, meta-learning, multi-criteria decision making and rough-set discretization. Three journals papers are under the review and revision status.

### B. Research Assistant at the Kyung Hee University’s UCLab Reserch Projects:

- **Development of a Probabilistic Inference Engine:** In ATHENA system (a UCLab

project), Naïve-Bayes inference engine is developed, which generates wellbeing recommendations for the users' nutrients, physical activities and music therapy.

- **Development of Rule-based Reasoning and Recommendation Framework:** In **Mining Minds** system (a UCLab project), a rule-based reasoning framework is designed and developed, which generates wellbeing recommendations about user's nutrients, and physical activities.
  - **Development of CBR-based Classifier Selection System:** In **Mining Minds** platform (a UCLab project), a CBR-based automatic classifier selection system is designed and developed, which automatically selects an appropriate decision tree classifier, based on the dataset's meta-characteristics. The objective of the algorithm selector is to select appropriate algorithm for the Mining Minds dataset to be learning automatically and build a classification model for it.
  - **Team-lead:** In **Mining Minds** system development, has worked as a Team-lead for a duration of **six months**.
  - **Research Assistant. (May 2012- June 2012). University of Maine, Le Mans, France**
    - **Research responsibility:** Tokenization and preprocessing of Pashto language text for the purpose of development of a statistical machine translation system for the mentioned language.
- 

## **Teaching Experience (More than 11 Years)**

---

- **Assistant Professor in Computer Science. BPS-19 (Oct 2016- To Date). University of Peshawar**
  - **Courses taught:** Logic, Management Information System, Business Information System, Electronic Commerce, Introduction to IT
  - **Other responsibility:** Serving as coordinator of examination at the departmental level to manage the examination matters.
- **Lecturer in Computer Science. BPS-18 (Dec 2009- Oct 2016). University of Peshawar**
  - **Courses taught:** Artificial intelligence, Operating System, Data Structure, Automata Theory, Natural Language Processing, Visual basic Programming, Management Information System, Business Information System, System Analysis and Design, Introduction to Computer
  - **Other responsibility:** Supervising master and undergraduate students' in their final year projects and thesis. Served as a controller of examination at the departmental level to manage the examination system.
- **Lecturer in Computer Science. BPS-18 (Aug 2009-Dec 2009). Bannu University of Science & Technology**
  - **Courses taught:** System Analysis and Design, Software Engineering
  - **Other responsibility:** Supervising master and undergraduate students
- **Lecturer in Computer Science. BPS-17 (Sept 2007-Aug 2009). Govt. Degree College, Kabal, Swat, KPK, Pakistan**
  - **Courses taught:** Introduction to computer, data structure, digital logic and design, program mining in C/C++, Data structure, Discrete Mathematics, Operating System, Databases
  - **Other responsibility:** nil
- **Teaching Assistant. (Sept 2006- Sept 2007). Department of Computer Science, University of Peshawar, Pakistan**
  - **Responsibility:** Teaching subjects of Automata Theory and Database Administration at undergraduate level and helping students in semester projects development.

## Education and Qualifications

---

### S.No. Degree/Institute

---

1.	<b>Ph.D., Computer Engineering (Machine Learning)</b> <b>Kyung Hee University (Global Campus),</b> <i>Department of Computer Engineering, Ubiquitous Computing Laboratory, South Korea.</i>	Sept 2012- August 2016
2.	<b>M.Phil., Artificial Intelligence (Natural Language Processing)</b> <b>University of Peshawar, Peshawar, Pakistan,</b> Department of Computer Science.	Jan 2006- May 2009
3.	<b>M.Sc. Computer Science,</b> <b>Hazara University, Mansehra, Pakistan,</b> Department of Computer Science, Govt. Post Graduate College No.1, Abbottabad.	Sept 2002- Feb 2005
4.	<b>B.Sc. Computer Science,</b> <b>University of Peshawar, Pakistan,</b> <i>Department of Computer Science, Govt. Post Graduate Jahanzeb College, Swat.</i>	Aug 2000- Aug 2002
4.	<b>F.Sc. - Higher Secondary School - Engineering,</b> <b>BISE SWAT, Pakistan,</b> <i>Govt. Post Graduate Jahanzeb College, Swat.</i>	Aug 1997 - Jul 2000
5.	<b>SSC. - High School - Science</b> <b>BISE SWAT, Pakistan,</b> <i>Govt. Higher Secondary School, Kishawara, Swat.</i>	- Jul 1997

---

### Technical Reviewer for International Journals

1. Multimedia Tools and Applications (SCIE Indexed)  
<http://www.springer.com/computer/information+systems+and+applications/journal/11042>
2. Information Sciences (SCI Indexed)  
<http://www.journals.elsevier.com/information-sciences>
3. Expert Systems with application  
<https://www.journals.elsevier.com/expert-systems-with-applications>

### References

---

### S.No. Name & Designation

### Relationship

1.	<b>Prof. Sungyoung Lee,</b> <i>Director Ubiquitous Computing Lab, Department of Computer Engineering, Kyung Hee University, South Korea.</i> <a href="mailto:sylee@oslab.khu.ac.kr">sylee@oslab.khu.ac.kr</a>	PhD Advisor
2.	<b>Prof. Muhammad Abid Khan</b> Department of Computer Science, <b>University of Peshawar, Peshawar, Pakistan.</b> <a href="mailto:abid_khan1961@yahoo.com">abid_khan1961@yahoo.com</a>	M.Phil/MS Advisor

---