

Curriculum Vitae

July 2020

1. Personal Data

Name : Imran Ihsan
Birth date : March 11th, 1974
Nationality : Pakistani
Home Address : House 306, Street 67, F-11/1,
Islamabad, 44000, Pakistan
Work Address : Department of Computer Science, Air University,
E9, Islamabad, 44000, Pakistan
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2. Academic Qualifications

- PhD in Computer Science. Capital University of Science and Technology, Islamabad. 2020. *Citations' Context and Reasons Ontology - CCRO: A Model for Citation Reasons between Research Articles* – Research Area: Knowledge Graph, Ontology Engineering, NLP
- MS in Multimedia Communications. Mohammad Ali Jinnah University, Islamabad. 2005. *UREKA Learning-object Taxonomy and Repository Architecture – ULTRA* (An E-Learning Platform)
- MCS in Computer Science. Hamdard University, Islamabad. 2000
- MSc in Physics. University of the Punjab, Lahore. 1994

3. Professional Activities

- Assistant Professor. Department of Computer Science, Faculty of Computing and AI, Air University, Islamabad. (Since September 2013)
- Project Manager. Innovative Research System, Islamabad. (January 2010 – August 2016)
- System Architect. ACES Pvt. Ltd., Islamabad. (May 2008 – January 2010)
- Lecturer. Department of Computer Science, Mohammad Ali Jinnah University, Islamabad. (May 2006 – April 2008)
- GUI Consultant. Stafona Inc., Islamabad. (October 2007 – May 2008)
- Lecturer. Hamdard Institute of Information Technology, Hamdard University, Islamabad. (February 2002 – May 2006)
- Web Designer and Developer. Remote Silicon Digital Thalamus, Islamabad. (September 2000 – January 2002)
- Multimedia Developer. Attract4U Pvt. Ltd., Islamabad. (August 1998 – August 2000)
- Lecturer. Petroman Institute, Islamabad. (September 1996 – June 1998)

4. Positions

- Head Final Year Projects, Faculty of Computing and Artificial Intelligence, Air University, Islamabad. (Since July 2019)
- Head of Air University Center for Smart Data. Department of Computer Science, Air University, Islamabad. (Since February 2019)
- Head of Programming. Department of Computer Science, Air University, Islamabad. (Since August 2018)
- Co-Head of Intelligent Media Center. Department of Computer Science, Air University, Islamabad. (Since August 2018)
- Founding Member of the Center for Research in Data Sciences, Semantics & Scientometrics. Faculty of Computing, Capital University of Science and Technology (Formerly Mohammad Ali Jinnah University), Islamabad. (Since January 2005)

5. Publications (Cumulative Impact Factor: 6+)

5.1. International Journals

- [1] Imran Ihsan and M. Abdul Qadir. "An NLP-Based Citation Reason Analysis using CCRO". *Scientometric*, Paper Submitted, 2020.
- [2] Imran Ihsan, Kashmala Khan and Nabeeha Khtattak. "Pakistan Sign Language Ontology – PSLO". *International Journal of Advanced Computer Science and Applications*. Paper Accepted.
- [3] Imran Ihsan and M. Abdul Qadir. "CCRO: Citation's Context and Reasons Ontology". *IEEE Access*, vol. 7, no. 1, pp. 30423--30436, 2019.
- [4] Salman Masih and Imran Ihsan. "Using Academy Awards to Predict Success of Bollywood Movies using Machine Learning Algorithms". *International Journal of Advanced Computer Science and Applications*, vol. 10, no. 2, pp. 438--446, 2019.
- [5] Imran Ihsan, Sarah Imran and Osama Ahmed. "Sentiment Based Study of Citations Reporting Verb Corpus Using Natural Language Processing". *Corporum: Journal of Corpus Linguistics*, Paper Accepted, 2019.
- [6] Imran Ihsan and Faisal Fayyaz. "Intelligent Classification of Learning Objects using Information Content, Intra Document Terms and Domain Vocabulary". *Journal of Software Engineering & Intelligent Systems*, vol. 2, no. 3, pp. 184--191, 2017.
- [7] Imran Ihsan and M. Abdul Qadir. "Making MOOC Slides Semantically Accessible: A Semantic Content Generation Tool for PowerPoint Slides". *Journal of Distance Education & Research*, vol. 2, no. 1, pp. 40--52, 2017.
- [8] Imran Ihsan, Mohib ur Rehman, Mobin Uddin Ahmed and M. Abdul Qadir. "SPoint - A Semantic Based e-Learning Content Development Tool". *Journal of Applied Sciences*, vol. 8, no. 1, pp. 127--133, 2008.
- [9] Omara Abdul Hamid, Muhammad Abdul Qadir, Nadeem Iftikhar, Mohib ur Rehman, Mobin Uddin Ahmed and Imran Ihsan. "Generic Multimedia Database Architecture Based upon Semantic Libraries". *Informatica*, vol. 18, no. 4, pp. 483--510, 2007.

- [10] Bilal Saeed Raja, M. Ali Iqbal and Imran Ihsan. "Moving from Problem Space to Solution Space". *World Academy of Science, Engineering and Technology*, vol. 1, no. 11, pp. 764--767, 2007.
- [11] Imran Ihsan, M. Abdul Qadir and Nadeem Iftikhar. "Mobile Ad-Hoc Service Grid – MASGRID". *World Academy of Science, Engineering and Technology*, vol. 1, no. 5, pp. 786--789, 2007.
- [12] Mohib ur Rehman, Imran Ihsan, Mobin Uddin Ahmed, Nadeem Iftikhar and M. Abdul Qadir. "Generic Multimedia Database Architecture". *World Academy of Science, Engineering and Technology*, vol. 1, no. 5, pp. 1535--1538, 2007.

5.2. Proceedings of International Conferences

- [1] Waleed Khalid, Xing Xing, Yong Niu, Osama Tahir, and Imran Ihsan. "Efficiency Analysis of Collaborative Based Recommendation System". in *Proceedings of the 6th Annual International Conference on Network and Information Systems for Computers – ICNISC*, Guiyang, Guizhou, China, 14 – 15 August 2020. Paper Accepted
- [2] Mehmood Hassan, Aiman Sultan, Ali Afzal Awan, Imran Ihsan and Shahzaib Tahir. "An Enhanced and Secure Multi-server Based User Authentication Protocol". In *Proceedings of IEEE International Conference on Cyber Warfare and Security – ICCWS*, Islamabad, Pakistan. 29 September – 1 October 2020. Paper Accepted
- [3] Imran Ihsan, Talha Latif and Sheheryar Ali Bhatti. "Classifying Biomedical Natural Language Questions using Linked Data". in *Proceedings of the International Conference on Theory, Methods and Practice in Corpus Linguistics*, Islamabad. 22-23 April 2019.
- [4] Imran Ihsan and M. Abdul Qadir. "Querying Semantically Related Items using modified 4-Index Scheme for XML Documents". in *Proceedings of the 13th IEEE International Conference on Frontiers of Information Technology - FIT*, Islamabad, Pakistan pp. 47--52, December 2015.
- [5] Imran Ihsan, Faisal Fayyaz Kiyani, M. Abdul Qadir and Mohib ur Rehman. "Semantic Indexing for XML Documents using RDBMS". in *Proceedings of the 6th International Conference on Information and Communication Technologies - ICICT*, Karachi, pp. 1--5, December 2015.
- [6] Khurram Ejaz, Abdul Mateen and Imran Ihsan. "Vector Shape Classification and Z indexing". in *Proceedings of the IEEE International Conference on Intelligent Network and Computing - ICINC*, Kuala Lumpur, Malaysia, pp. 2.1--2.5, November 2010.
- [7] Imran Ali Qureshi and Imran Ihsan. "A Survey of Text & Image-based Presentation Tools". in *Proceedings of the International Conference on Intelligence and Information Technology - ICIIT*, Lahore, Pakistan, pp. 103--107, October 2010.
- [8] Imran Ihsan, Mohib ur Rehman, Mobin Uddin Ahmed and M. Abdul Qadir. "UREKA Learning Object Taxonomy and Repository Architecture - ULTRA". in *Proceedings of the 10TH IEEE International Multi-topic Conference - IEEE INMIC*, Islamabad, pp. 231--236, December 2006.
- [9] Omara Abdul Hamid, M. Abdul Qadir, Nadeem Iftikhar, Mohib ur Rehman, Mobin Uddin Ahmed and Imran Ihsan. "Generic Multimedia Database Architecture: Towards High-Level Semantic Retrieval". in *Proceedings of the 6th Information Business Management Association (USA:IBIMA) Conference on Managing Information in Digital Economy: Issues & Solutions - IBIMA*, Bonn, Germany, pp. 371--378, June 2006.

- [10] Imran Ihsan, Mobin Uddin Ahmed, Mohib ur Rehman, M. Abdul Qadir and Nadeem Iftikhar. "Semantically Meaningful Unit - SMU; An Openly Reusable Learning Object for UREKA Learning-Object Taxonomy & Repository Architecture - ULTRA". in *Proceedings of the IEEE/ACS International Conference on Computer Systems and Applications - AICCSA*, Dubai/Sharjah, pp. 1011--1018, March 2006.
- [11] Mobin Uddin Ahmed, Mohib ur Rehman and Imran Ihsan and M. Abdul Qadir. "Semantic Integration of Learning Objects for UREKA Navigation and Integration Toolkit - UNIT". in *Proceedings of the IEEE International Conference on Emerging Technologies - IEEE ICET*, Islamabad, Pakistan, pp. 525--529, September 2015.
- [12] Imran Ihsan, Mohib ur Rehman, Mobin Uddin Ahmed, M. Abdul Qadir and Nadeem Iftikhar. "UREKA - Grid Enabled Educational Multimedia Database". in *Proceedings of the 7th International Conference on Software Engineering and Knowledge Engineering - SEKE*, Taipei, Taiwan, pp. 485--490, July 2015.

5.3. Poster Presentations

- [1] Imran Ihsan, Talha Latif and Sheheryar Ali Bhatti. "Pharmaceutical Semantic Search Engine". in *Emerging Scientist - ES*, Faisalabad, March 2019.
- [2] Imran Ihsan, Shahzaib Tariq, M. Umar Nawaz and Syed Muhammad Taqi. "Analyzing Pre-Published Research Articles". in *Emerging Scientist - ES*, Faisalabad, March 2019.
- [3] Imran Ihsan, Habib Ur Rehman, Usama Shahid and M Abdullah. "Online Teaching with Real Time Communication". in *Emerging Scientist - ES*, Faisalabad, March 2019.
- [4] Imran Ihsan and M. Abdul Qadir. "Research Issues in Semantic Enabled Publishing Framework". in *4th International Conference on Biological and Computer Sciences - C-BICS*, Islamabad, December 2016.

6. Scientific and Cooperation Activities

6.1. Research Projects

SPERMINATOR. Project Manager. "*Computer Aided Sperm Analysis*", ICT RnD Funded Project (PKR 17.3 Million) for Innovative Research Systems, Islamabad. (2013 - 2015)

MORPHIC. Project Manager. "*Computer Aided Morphological Analysis*", HEC Funded Project (PKR 9.3 Million) for Air University, Islamabad. (2014 - 2015)

UREKA. Project Coordinator. "*A Grid Enabled Multimedia E-Learning Platform*", for Mohammad Ali Jinnah University, Islamabad. (2004 - 2005)

6.2. Industry Projects

E-OFFICE. System Architect. "*Intranet based Office Automation Application*", for ACES Pvt. Ltd., Islamabad. (2008 - 2010)

PROMIS. System Architect. "*Police Record Office Management Information System*", for Interactive Group, Islamabad. (2010 - 2011)

REI MOBILE. Project Manager. “*A Completed Real Estate portal for Real Estate Agents*”, freelance work. (2010 – 2011)

6.3. Organization of Scientific Events

- Program Manager of Game Jam 2017 – Game Development Event in AirTech 2017, Air University, Islamabad. November 2017
- Member of Organizing Committee of IEEE INMIC 2006 – IEEE International Multi-topic Conference. December 2006
- Member of Organizing Committee of IEEE ICEIS 2006 – IEEE International Conference on Engineering and Intelligent Systems. April 2006

7. Supervision

7.1. MS

7.1.1. Concluded

- MS in Computer Science, Mohammad Ali Jinnah University. Khurram Ejaz. *Vector Shape Classification and Z indexing*. (2008)
- MS in Computer Science, Air University. Zainab Amjad. *Semantic Based Citation Reason Analysis using Reporting Verbs*. (2020)

7.1.2. Ongoing

- MS in Computer Science, Air University. Muntazir Mehdi. *An End-to-End Neural Network Framework for Citation Text Clustering using CCRO Ontology*. (Since 2020)

7.2. BS

7.2.1. Concluded

- BS in Computer Science, Air University. Kashmala Khan and Nabeeha Khattak. *PSLO: Pakistan Sign Language Ontology*. (2020) – Best Project Award, Pakistan Science Fair
- BS in Computer Science, Air University. Saba Amin and Afsheen Asif. *Fall Up: Fall Risk Assessment and Prediction Based on Gait Analysis*. (2020) - Ignite NGIRI Funded
- BS in Computer Science, Air University. Fatima Hussain and Nawwal Khawaja. *Gluco Gaurad: Smartphone Based Continuous Glucose Monitoring*. (2020) - Ignite NGIRI Funded
- BS in Computer Science, Air University. Faiz Muhammad and Fathma Anwar. *Levin's Verb Ontology*. (2020) - Ignite NGIRI Funded
- BS in Computer Science, Air University. M. Atif and Abdul Muizz. *Trivia: Knowledge Graph embedding in Citation Data*. (2020)
- BS in Computer Science, Air University. Wishu Zehra and Nimra Maqsood. *Emotisys: Automated Analysis of Emotions through Speech patterns using Machine Learning*. (2020)
- BS in Computer Science, Air University. M. Fauzan Azam and Shahzaib Aziz. *Whiny: Audio Pattern Recognition of Crying Baby*. (2020)
- BS in Computer Science, Air University. Hamza Tahir and Ahmed Arsalan. *Detection and Classification of Breast Cancer Abnormalities through CNN and Inception V3*. (2020)

- BS in Computer Science, Air University. Talha Asim and Bassam Ahmed. *A Decentralized Voting Application*. (2020)
- BS in Computer Science, Air University. Afnan Saeed, Sonia and M. Hassaan Tariq. *OSAP: Ontology Based Semantic Authoring and Publishing*. (2019)
- BS in Computer Science, Air University. Talha Latif and Sheheryar Ali Bhatti. *PHASSE: Pharmaceutical Semantic Search Engine*. (2019)
- BS in Computer Science, Air University. Rida Babuk, Kirrat Bhatti and Fatima Imran. *AU360: Air University 360 Degree Experience*. (2019) Funded by Air University.
- BS in Computer Science, Air University. Ammar Nadeem and Nouman Amjad. *Multi MLA: Multi ML-Agents in Unity using Tensor-flow*. (2019)
- BS in Computer Science, Air University. Shahzaib Tariq, M. Umar Nawaz and Syed Muhammad Taqi. *RPAT: Research Paper Analytic Tool*. (2019)
- BS in Computer Science, Air University. Habib Ur Rehman, Usama Shahid and M. Abdullah. *TeachTech: Let's Teach Together*. (2019)
- BS in Computer Science, Air University. Syed Daniyal Shah and Ali Shahbaz. *CSAT: Health Hub: An AI Based Heart Attack Prediction App*. (2018) Microsoft Imagine Cup 2018 Regional Winner, 2nd Prize in AirTech 2017 - Project Exhibition and Competition
- BS in Computer Science, Air University. Osama Ahmed Tahir, Ali Jasim Bukhari and Waleed Khalid. *CSAT: Citation Sentiment Analysis Tool*. (2017) First Prize in AirTech 2016 - Project Exhibition and Competition
- BS in Computer Science, Air University. Usman Kaisser Moghal, Suleman Khan and Shakeel Zaman. *SABAQ: Semantic eLearning and Experience Tracking*. (2017)
- BS in Computer Science, Air University. Muhammad Waseem, Adeel Butt and Farrukh Saeed. *OBE: Online BiB Editor*. (2016)
- BS in Computer Science, Air University. Mashad Imran and Zeeshan Imran. *SPoint: A Semantic Based e-Learning Content Development Tool*. (2015)

7.2.2. Ongoing

- BS in Computer Science, Air University. Sarah Jawad and Marwa Fahim. *Knowledge Graph Embedding for Drug-Drug Interaction*. (Since 2020)
- BS in Computer Science, Air University. Faizan Azhar and Momin Nadeem. *Churn Prediction for Pakistan Telecom Industry*. (Since 2020)
- BS in Computer Science, Air University. Abubakar Khalid and M. Umair. *Index Prediction of Stock Market using Linked Open Data*. (Since 2020)
- BS in Computer Science, Air University. Tehniat and Hassan Younas. *Project Management System for AU FYPs*. (Since 2020)

8. Academic Certifications

- Data Camp Career Track – Machine Learning for Everyone. 29 Courses (2020)
- Coursera – AI for Everyone. Deeplearning.ai (2020)
- Coursera – Game Design and Development. Michigan State University (2018)
- Coursera – User Interface Design. University of Minnesota (2016)

- Coursera – Responsive Web Development. University of London (2016)
- Coursera – Full Stack Web Development. The Hong Kong University (2015)
- Coursera – Data Science Specialization. John Hopkins University (2015)

9. Seminars and Workshops

- Python for Machine Learning, AI and NLP. Kamyab Jawan Program (February 2020)
- Game Design with Unity3D. *3 Days Workshop*. Air University (August 2018)
- Responsive Web using BootStrap 4. *3 Days Workshop*. Air University (August 2018)
- Semantic Web and Ontologies. *3 Days Workshop*. Air University (August 2018)
- User Interface Design and Experience. Seminar. Bahria University (2017)
- Semantic Web and Mining Tools. *2 Days Workshop*. Mohammad Ali Jinnah University (2015)
- Graphics and Multimedia. *Seminar*. Bahria University (2012)