

## EDUCATION

### EZA Research Fellow (Summer 2016)

Awarded by the Austrian Agency for International Cooperation in Education & Research (OeAD-GmbH) and financed by the Austrian Federal Ministry of Science, Research and Economy (BMWFW).

### PhD (2003-2007)

Institute of Software Technology & Interactive Systems  
Vienna University of Technology, Vienna, Austria  
Supervisor: Prof. Dr. Amin Tjoa

### M.Sc. (1995-1997) with University Gold Medal

Department of Computer Science, University of Peshawar, Pakistan

## TEACHING

Faculty member at the Department of Computer Science, University of Peshawar since May 1998. Currently working as Full Professor since October 2015 and Chairman of the department since October 2016.

Courses Taught at BS, MS and PhD Levels

Object-Oriented Programming (C++/Java), Computer Networks, Theory of Computation, Compiler Construction, Data Communication, Systems Programming, Database Systems, Data Structures, Analysis of Algorithms, Web Mining, Ontology Engineering, Information Retrieval, Web Engineering, Semantic Web, Information Architecture, Research Methodology, Social Web, Mobile Application Development, etc.

### Membership of Professional Societies

IEEE (The Institute of Electrical and Electronics Engineers).....Member ID:  
93741654

ACM (The Association for Computing Machinery).....Member ID:  
1100116

IEICE (The Institute of Electronics, Information & Communication Engineers-Japan)....Member ID:  
1680170

## RESEARCH

Scholar Profiles/IDs



ORCID <https://orcid.org/0000-0002-7734-7243>

WoS/Publons: <https://publons.com/researcher/1724782/shah-khusro/>

Google Scholar: <https://scholar.google.com/citations?user=t8RLfucAAAAJ&hl=en>

ResearchGate : [https://www.researchgate.net/profile/Shah\\_Khusro](https://www.researchgate.net/profile/Shah_Khusro)

### Patents Filed (submitted to IPO Pakistan):

1. Shah Khusro, Iftikhar Alam. **Methods and system for the design of a media player for advanced tagging and playing media files with video effects** - Application ID: 39/2019, IPO Journal Code:190215.
2. Shah Khusro, Iftikhar Alam. **Methods and system for creating a comprehensive e-tutor of a textbook with multimedia content of varying levels of details to reduce teaching effort in all instruction**

**environments** - *Application ID: 783/2019, IPO Journal Code:191227.*

3. Shah Khusro, Mumtaz Khan. **Methods, system, and design of a smartphone-based social assistant for helping blind users in academic environment** - *Application ID: 785/2019, IPO Journal Code:191227.*
4. Shah Khusro, Iftikhar Alam. **Methods and system for real-time group profile generation and recommendations on Smart TV** - *Application ID: 779/2019, IPO Journal Code:191227.*
5. Shaukat Ali, Corina Sas, Shah Khusro, Mumtaz Khan. **Smart TV-based Lifelogging System: Design and methods for capturing, processing storing, searching and retrieving lifelogging information of smart TV users.** *Application ID: 591/2021, IPO Journal Code:210914.*

## **PhD Students Supervised**

1. *Fouzia Jabeen* (Session 2010-2011)  
Exploiting Contexts for Finding Refined Relevant Set of Tags: Towards Maintaining a Quality Folksonomy. Completed 2017.
2. *Shaukat Ali* (Session 2009-2010)  
Exploiting Sensor Data Semantics for Smartphone-based Lifelogging: Towards the Development of Digital Prosthetic Memory on Smartphones. Completed 2017.
3. *Akif Khan* (Session 2010-2011)  
Blind-Friendly Universal User Interfaces: Towards the Design of Adaptive User Interfaces for Blind People. Completed 2018.
4. *Syed Rahman Mashwani* (Session 2011-2012)  
Augmented Directory Navigation for Non-Hierarchical Retrieval of Files—360° Semantic File System. Completed 2018.
5. *Irfan Ullah* (Session 2014-2015)  
Improving Social Book Search using Structure Semantics, Bibliographic Descriptions and Social Metadata. Completed 2020.
6. *Iftikhar Alam* (Session 2014-2015)  
Tailoring Recommendations to Groups of Viewers on Smart TV: A Real-Time Profile Generation Approach. Completed. Completed 2020.
7. *Inayat Khan* (Session 2014-2015)  
Towards the Design of Context-aware Adaptive User Interfaces to Minimize the Driver Distractions. Completed 2020.
8. *Nosheen Fayyaz* (In Progress)  
Summarizing and Querying PDF Tables to Make Them Accessible for Blind and Visually Impaired People. To be Completed in 2022.
9. *Mumtaz Khan* (In Progress)  
Towards the Design of Personalized Adaptive User Interfaces for Smart TV Viewers. To be Completed in 2022.

## **MS Students Supervised**

1. *Qamar Zaman*  
Improved Detection and Interpretation of Signboards in Natural Scene for Visually Impaired Persons
2. *Abdul Haq*  
Towards Better Recognition of Face, Age, Gender and Number of Viewers in a Smart TV Environment

3. *Ibrar Ahmad*  
How Do I Teach? Towards a More Engaging Teaching Experience Using Off-The-Shelf Devices
4. *Muhib Ullah*  
Smartphone Based Cognitive Assistance of Blind People in Room Recognition and Awareness
5. *Azhar ud Din*  
Age-Based Ranking of YouTube Videos for Improved Parental Controls in SmartTV Environment
6. *Malang Jan*  
User Interaction Based Content Clustering on Smart TV
7. *Waheed Murad*  
Recommending Expert Freelancers to Buyers in Online Marketplaces
8. *Waseem Khan*  
Recommending Application Programming Interfaces (APIs) to Developers Based on Technical Specifications
9. *Sonam Yar*  
Client-side Revisitation Support with Contextual and Dynamic Suggestions for the Speed Dial's Thumbnail
10. *Muhammad Asim*  
Content Based Call for Papers Recommendation to Researchers
11. *Hidayat Ullah*  
Assisting Blind Persons in Joining Congregational Prayers using Smartphone
12. *Sumayya Khan*  
Haptic Feedback to Assist Blind People in Indoor Environment using Vibration Patterns
13. *Summan Zaib*  
Smartphone Based Indoor Navigation for Blind Persons using User Profile and Simplified Building Information Model
14. *Durre Shehwar*  
Towards Development of Indoor Obstacles Ontology for Context Provision to Visually Impaired Persons
15. *Fayyaz Ali*  
Ratio-Based Weighted PageRank: A Novel Approach to Ranking Web Pages with Fast Convergence and Rank Preservation
16. *Aizaz Khan*  
Smart White Cane for Identifying Walking Patterns of a Visually Impaired Person Through Smartphone Sensor Data Fusion
17. *Nabeela*  
A Rich Tag Cloud Interface to a Book Collection
18. *Sehrish Rafiq*  
Discovering Semantic Relationships Among PDF Book Figures Using Contextual Similarity
19. *Syed Khurram Ali Shah*  
A Semantic Bookmark System for Dynamic Modeling of Users Browsing Preferences

20. *Imam ud Din*  
Semantic History: Ontology-based Modeling of Users' Web Browsing Behaviors for Improved Web Page Revisitation
21. *Tauseef ur Rahman*  
An Integrated Approach to Expert Recommendation in Social Information Seeking Platforms
22. *Bahadar Ali*  
Searching Tabular Information in PDF Book Collection using Schema Matching Techniques
23. *Zafar Ali*  
A Hybrid Approach to Book Recommendation using Table of Contents and Association Rule Mining
24. *Asim Ullah*  
The Design and Development of a Comprehensive Book Structure Ontology
25. *Badam Niazi*  
Designing a User Interface for Blind People to Perform Common Activities on Smartphones
26. *Mumtaz Khan*  
Collaborative Video Annotation based on Ontological Themes, Temporal Duration and Pointing Regions
27. *Aisha Khan*  
FolksoMap - A Map-like Zoomable Interface to a Tag Space
28. *Asima Lateef*  
Extracting and Annotating Book Tables using DBpedia and Search Engine Snippets
29. *Jehangir Khan*  
Integrating Short Message Service (SMS) in Open Source Digital Signage System for Academic Environments
30. *Amna Majid*  
Discovering and Utilizing Tag Semantics for Mapping in Folksonomies and Vocabularies
31. *Aftab Alam*  
Confluence of Online Social Network, Social Question and Answering Community, and User Reputation Model for Information Seeking and Expert Generation
32. *Iftikhar Alam*  
Short Message Service (SMS) based Survey Questionnaire and Form Processing
33. *Inayat Khan*  
An Investigation of Smartphone Sensors in Daily Life Activities and Their Effect on Battery Life
34. *Irfan Ullah*  
The Design of a Scalable and Flexible Book Search Engine
35. *Shah Khalid*  
Crawling AJAX-Based Web Applications
36. *Nisar Muhammad*  
Towards Search Results Ranking in Social Bookmarking Environments
37. *Syed Rahman*  
E-mail address privacy via Proxy E-Mails Accounts

## List of Publications

### Journal Articles

1. Zafar Ali, Guilin Qi, Pavlos Kefalas, Shah Khusro, Inayat Khan, Khan Muhammad, "SPR-SMN: scientific paper recommendation employing SPECTER with memory network," *Scientometrics*, vol. 2022, pp. 1-23, 2022. DOI: 10.1007/s11192-022-04425-3. *JCR/IF*
2. Ibrar Ahmad, Shah Khusro, Iftikhar Alam, Inayat Khan, and Badam Niazi, "Towards a Low-cost Teacher Orchestration using Ubiquitous Computing Devices for Detecting Students' Engagement," *Wireless Communications and Mobile Computing*, vol. 2022, Article ID 7979766, pp. 1-21, 2022. DOI: 10.1155/2022/7979766. *JCR/IF*
3. Muhib Ullah, Shah Khusro, Mumtaz Khan, Iftikhar Alam, Inayat Khan, and Badam Niazi, "Smartphone based Cognitive Assistance of Blind People in Room Recognition and Awareness," *Mobile Information Systems*, vol. 2022, Article ID 6068584, pp. 1-14, 2022. DOI: 10.1155/2022/6068584. *JCR/IF*
4. Malang Jan, Shah Khusro, Iftikhar Alam, Inayat Khan, and Badam Niazi, "Interest-Based Content Clustering for Enhancing Searching and Recommendations on Smart TV," *Wireless Communications and Mobile Computing*, vol. 2022, Article ID 3896840, pp. 1-14, 2022. DOI: 10.1155/2022/3896840. *JCR/IF*
5. Mumtaz Khan, Shah Khusro, Iftikhar Alam, Shaukat Ali, and Inayat Khan, "Perspectives on the Design, Challenges, and Evaluation of Smart TV User Interfaces," *Scientific Programming*, vol. 2022, Article ID 2775959, pp. 1-14, 2022. DOI: 10.1155/2022/2775959. *JCR/IF*
6. Shah Khusro, Babar Shah\*, Inayat Khan, and Sumayya Rehman, "Haptic Feedback to Assist Blind People in Indoor Environment Using Vibration Patterns," *Sensors*, vol. 22, issue 1, pp. 1-20, Jan 2022. DOI: 10.3390/s22010361. *JCR/IF*
7. Inayat Khan, and Shah Khusro, "ConTEXT: context-aware adaptive SMS client for drivers to reduce risky driving behaviors," *Soft Computing*, vol. 26, issue 5, pp. 1-18, Jan 2022. DOI: 10.1155/2021/5802658. *JCR/IF*
8. Inayat Khan, Sanam Rizvi, Shah Khusro, Shaukat Ali, and Tae-Sun Chung, "Analyzing Drivers' Distractions due to Smartphone Usage: Evidence from AutoLog Dataset," *Mobile Information Systems*, vol. 2021, pp. 1-14, September 2021. DOI: 10.1155/2021/5802658. *JCR/IF*
9. Nosheen Fayyaz, Shah Khusro\*, Shakir Ullah, "Accessibility of Tables in PDF Documents: Issues, Challenges and Future Directions," *Information Technology and Libraries*, vol. 40, issue 3, pp. 1-20, Sept. 2021. *JCR/IF*
10. Akif Khan, Shah Khusro "A mechanism for blind-friendly user interface adaptation of mobile apps - a case study for improving the user experience of the blind people," *Springer Journal of Ambient Intelligence and Humanized Computing*, pp. 1-31, July 2021. DOI: 10.1007/s12652-021-03393-5. *JCR/IF*
11. Zafar Ali, Guilin Qi, Khan Muhammad, Pavlos Kefalas, Shah Khusro, "Global Citation Recommendation employing Generative Adversarial Network," *Elsevier Expert Systems with Applications*, Vol. 180, Issue August 2021, pp. 1-11, Mar. 2021. *JCR/IF*
12. Iftikhar Alam, Shah Khusro\*, Mumtaz Khan, "Personalized Content Recommendations on Smart TV: Challenges, Opportunities, and Future Research Directions," *Elsevier Entertainment Computing*, Vol. 38, Issue May 2021, pp. 1-13, Feb. 2021. *JCR/IF*

13. Fayyaz Ali, Shah Khusro\* "Content and Link-Structure Perspective of Ranking Webpages: A Review," Elsevier Computer Science Review, Vol. 40, Issue May 2021, pp. 1-31, Mar. 2021. *JCR/IF*
14. Adamu Garba, Shah Khalid, Irfan Ullah, Shah Khusro, Mumin Diyawu, "Embedding Based Learning for Collection Selection in Federated Search," *Data Technologies and Applications*, vol. 54, Issue 5, pp. 703-717, Oct. 2020. DOI: 10.1108/DTA-01-2019-0005. *JCR/IF*
15. Irfan Ullah, Shah Khusro\*, Ibrar Ahmad, "Improving Social Book Search Using Structure Semantics, Bibliographic Descriptions and Social Metadata," *Multimedia Tools and Applications*, Sept. 2020. DOI:10.1007/s11042-020-09811-8. *JCR/IF*
16. Inayat Khan, Shah Khusro\*, Niamat Ullah, and Shaukat Ali, "AutoLog: Towards the Design of a Vehicular Lifelogging Framework for Capturing, Storing, and Visualizing LifeBits," *IEEE Access*, vol. 8, pp. 1-15, July 2020. DOI: 10.1109/ACCESS.2020.3011660. *JCR/IF*
17. Akif Khan and Shah Khusro, "An insight into smartphone-based assistive solutions for visually impaired and blind people - issues, challenges and opportunities," *Universal Access in Information Society*, pp. 1-34, July 2020. DOI: 10.1007/s10209-020-00733-8/. *JCR/IF*
18. Inayat Khan and Shah Khusro\*, "Towards the Design of Context-Aware Adaptive User Interfaces to Minimize Drivers' Distractions," *Mobile Information Systems*, pp.1-23, July 2020 (Article ID 8858886), DOI: 10.1155/2020/8858886. *JCR/IF*
19. Shaukat Ali, Shah Khusro, Akif Khan, Inayat Khan, and Salman Faiz Solheria, "An Insight into Smartphone-Based Lifelogging Research: Issues, Challenges, and Research Opportunities," *Proceedings of the Pakistan Academy of Sciences: A. Physical and Computational Sciences*, Vol. 56, Issue 3, pp. 69-84, March 2020. *HEC Category X*.
20. Iftikhar Alam and Shah Khusro\*, "Tailoring Recommendations to Groups of Viewers on Smart TV: A Real-time Profile Generation Approach," *IEEE Access*, Vol. 8, pp. 50814-50827, March 2020. DOI: 10.1109/ACCESS.2020.2980206. *JCR/IF*
21. Irfan Ullah and Shah Khusro\*, "Social Book Search: The Impact of the Social Web on Book Retrieval and Recommendation," *Multimedia Tools and Applications*, Jan. 2020. DOI:10.1007/s11042-019-08591-0. *JCR/IF*
22. Madeeha Aman, Saeed Mahfooz, Muhammad Zubair, Neelam Mukhtar, Kanwal Imran, and Shah Khusro, "Tunnel-Free Distributed Mobility Management (DMM) Support Protocol for Future Mobile Networks," *Electronics*, Vol. 8, Issue 12, pp. 1519, Dec. 2019. DOI: 10.3390/electronics8121519. *JCR/IF*
23. Irfan Ullah and Shah Khusro\*, "On the search behaviour of users in the context of interactive social book search," *Behaviour & Information Technology*, pp. 1-20, April 2019. DOI: 10.1080/0144929X.2019.15 *JCR/IF*
24. Iftikhar Alam, Shah Khusro\*, and Mumtaz Khan "Factors Affecting the Performance of Recommender Systems in a Smart TV Environment," *Technologies*, vol. 7, issue 2, pp. 1-19, May 2019. DOI: 10.3390/technologies7020041 *WoS Master Journal List*
25. Ahmad Alkhodre, Toqeer Ali Syed, Salman Jan, Yazed Alsaawy, Shah Khusro, and Muhammad Yasar Khan, "A Blockchain-based Value Added Tax (VAT) System: Saudi Arabia as a Use-Case," *International Journal of Advanced Computer Science and Applications*, vol. 10, issue 5, pp. 708-716, May 2019. DOI: 10.14569/IJACSA.2019.0100588 *WoS Master Journal List*
26. Shah Khalid, Shah Khusro, Irfan Ullah, and Godfrey Dawson-Amoah, "On the Current State of Scholarly Retrieval Systems," *Engineering Technology & Applied Science Research*, vol. 9, issue 1, pp. 3862-3869, Feb. 2019. *WoS Master Journal List*

27. Syed Rahman Mashwani and Shah Khusro\*, "360° Semantic File System: Augmented directory navigation for nonhierarchical retrieval of files," *IEEE Access*, vol. 7, pp. 1-13, Jan. 2019. DOI: 10.1109/ACCESS.2018.2890165 **JCR/IF**
28. Akif Khan and Shah Khusro\*, "Blind-friendly user interfaces - a pilot study on improving the accessibility of touchscreen interfaces," *Multimedia Tools and Applications*, pp-1-15, Jan. 2019. DOI: 10.1007/s11042-018-7094-y. **JCR/IF**
29. Fouzia Jabeen and Shah Khusro, "Core Architecture and Design Issues of Collaborative Tagging Applications," extended version in *Indian Journal of Science and Technology*, Vol. 12, issue 43, pp. 1-16, Nov. 2019. DOI: 10.17485/ijst/2019/v12i43/146432. **WoS Master Journal List**
30. Shah Khusro, Fouzia Jabeen, and Aisha Khan, "Tag Clouds: Past, Present and Future," *Proceedings of the National Academy of Sciences, India Section A: Physical Sciences*, pp. 1-15, Dec. 2018. DOI: 10.1007/s40010-018-0571-. **JCR/IF**
31. Izaz Khan, Shah Khusro\*, and Irfan Ullah, "Technology-assisted white cane: evaluation and future directions," *PeerJ*, pp. 1-27, Dec. 2018. DOI: 10.7717/peerj.6058. **JCR/IF**
32. Irfan Ullah, Shah Khusro\*, Asim Ullah, and Muhammad Naeem, "An Overview of the Current State of Linked and Open Data in Cataloging," *Information Technologies and Libraries*, vol. 37, no. 3, pp-1-27, Sep. 2018. **JCR/IF**
33. Akif Khan, Shah Khusro\*, Badam Niazi, Jamil Ahmad, Iftikhar Alam, and Inayat Khan, "TetraMail: a usable email client for blind people," *Universal Access in Information Society*, pp-1-20, Sep. 2018. DOI: 10.1007/s10209-018-0633-5. **JCR/IF**
34. Akif Khan and Shah Khusro\*, "BlindSense: An Accessibility-inclusive Universal User Interface for Blind People," *Engineering Technology & Applied Science Research*, vol. 8, no. 2, pp. 2775-2784, Apr. 2018. **WoS Master Journal List**
35. Syed Rahman Mashwani and Shah Khusro\*, "The Design and Development of a Semantic File System Ontology," *Engineering Technology & Applied Science Research*, vol. 8, no. 2, pp. 2827-2833, Apr. 2018. **WoS Master Journal List**
36. Nosheen Fayyaz, Irfan Ullah, and Shah Khusro\*, "On the Current State of Linked Open Data: Issues, Challenges and Future Directions," *International Journal on Semantic Web and Information Systems*, vol. 14, no. 4, pp. 110-128, Mar. 2018. **JCR/IF**
37. Shah Khalid, Shah Khusro\*, and Irfan Ullah, "Crawling Ajax-based Web Applications: Evolution and State-of-the-art," *Malaysian Journal of Computer Science*, vol. 31, no. 1, pp. 35-45, Jan. 2018. **JCR/IF**
38. Inayat Khan, Muhammad Abid Khan, Shah Khusro\*, and Muhammad Naeem, "Vehicular Lifelogging: Issues, Challenges and Research Opportunities," *Journal of Information Communication Technologies and Robotic Applications*, vol. 8, no. 2, pp. 30-37, Dec. 2017. **HEC Category Y**
39. Asim Ullah, Shah Khusro\*, and Irfan Ullah, "Bibliographic Classification in the Digital Age: Current Trends & Future Directions," *Information Technology and Libraries*, vol. 36, no. 3, pp. 48-77, Sep. 2017. **JCR/IF**
40. Shah Khusro, Shaukat Ali, Iftikhar Alam, and Irfan Ullah, "Performance Evaluation of Desktop Search Engines Using Information Retrieval Systems Approaches," *Journal of Internet Technology*, vol. 18, no. 5, pp. 1043-1055, Sep. 2017. **JCR/IF**
41. Danish Wadood, Azhar Rauf, Shah Khusro, and Shaukat Ali, "Identifying key influential parameters of high profile criminals through statistical correlation," *Cluster Computing*, vol. , no. , pp. , Jul.

2017. DOI: doi.org/10.1007/s1058. *JCR/IF*

42. Iftikhar Alam, Muhammad Abid Khan, Muhammad Naeem, and Shah Khusro\*, "There is no such thing as free lunch: An investigation of Bloatware effects on smart devices," *Journal of Information Communication Technologies and Robotic Applications*, vol. 8, no. 1, pp. 1-10, Jun. 2017. *HEC Category Y*
43. Shah Khusro, Aftab Alam, and Shah Khalid, "Social Question and Answer Sites: The Story So Far," *Emerald's Program*, vol. 51, no. 2, pp. 170-190, Jun 2017. *JCR/IF*
44. Aftab Alam, Shah Khusro\*, Irfan Ullah, and Shuaib Karim, "Confluence of Social Network, Social Question and Answering Community, and User Reputation Model for Information Seeking and Experts Generation," *Journal of Information Science*, vol. 43, no. 2, pp. 260-274, Apr. 2017. DOI:10.1177/0165551516637322. *JCR/IF*
45. Asima Latif, Shah Khusro, Irfan Ullah, and Nasir Ahmad, "A Hybrid Approach for Annotating Book Tables," *International Arab Journal of Information Technology*, vol. 15, no. 4, pp. 777-783, Apr. 2017. *JCR/IF*
46. Fakhre Alam, Sami Ur Rahman, Adnan Khalil, Sehat Ullah, and Shah Khusro, "Quantitative Evaluation of Intrinsic Registration Methods for Medical Images," *Sindh University Research Journal*, vol. 49, no. 1, pp. 43-48, Mar. 2017. *HEC Category X*
47. Mumtaz Khan, Shah Khusro\*, and Irfan Ullah, "On Linked Open Data (LOD)-based Semantic Video Annotation Systems", *Proceedings of the Pakistan Academy of Sciences: A. Physical and Computational Sciences*, vol. 54, no. 1, pp. 1-12, Mar. 2017. *HEC Category X*
48. Shaukat Ali, Shah Khusro\*, Irfan Ullah, Akif Khan, and Inayat Khan, "SmartOntoSensor: Ontology for Semantic Interpretation of Smartphone Sensors Data for Context-Aware Applications," *Journal of Sensors*, vol. 2017, Article ID 8790198, pp. 1-26, Feb. 2017. doi:10.1155/2017/8790198. *JCR/IF*
49. Inayat Khan, Shah Khusro\*, Shaukat Ali, and Jamil Ahmed, "Sensors are Power Hungry: An Investigation of Smartphone Sensors Impact on Battery Power from Lifelogging Perspective," *Bahria University Journal of ICT*, vol. 9, no. 2, pp. 7-19, Dec. 2016. *HEC Category Y*
50. Zurah Bibi, Jamil Ahmad, Amjad Ali, Amnah Siddiqa, Samar Hayat Khan Tareen, Shaheen Shahzad, Hussnain Ahmed Janjua, and Shah Khusro, "On the Modeling and Analysis of the Biological Regulatory Network of NF-kB Activation in HIV-1 Infection," *Complex Adaptive Systems Modeling*, vol. 4, no. 1, Dec. 2016. DOI:10.1186/s40294-015-0013-4. *WoS Master Journal List*
51. Sadia, Azhar Rauf, Shah Khusro, Saeed Mahfooz, and Rashid Ahmad, "A Robust System Detector for Clone Attacks on Facebook Platform," *NED University Journal of Research*, vol. 13, no. 4, pp. 71-80, Sep. 2016. *HEC Category X*
52. Fakhre Alam, Sami Ur Rahman, Adnan Khalil, Shah Khusro, and Muhammad Sajjad, "Deformable Registration Methods for Medical Images: A Review Based on Performance Comparison," *Proceedings of the Pakistan Academy of Sciences: A. Physical and Computational Sciences*, vol. 53, no. 2, pp. 111-130, Jun. 2016. *HEC Category X*
53. Fakhre Alam, Sami ur Rahman, and Shah Khusro, "Evaluation of Medical Image Registration Techniques Based on Nature and Domain of the Transformation", *Journal of Medical Imaging and Radiation Sciences*, vol 47, no. 2, pp. 178-193, Jun. 2016. DOI: 10.1016/j.jmir.2015.12.081. *Elsevier Indexed*
54. Shaukat Ali and Shah Khusro\*, "POEM: Practical Ontology Engineering Model for Semantic Web Ontologies," *Cogent Engineering*, vol. 3 2016, no. 1, pp. 1-39, May 2016. DOI: 10.1080/23311916.2016.1193959. *Scopus Indexed*



55. Shaukat Ali and Shah Khusro\*, "Mobile Phone Sensing: A New Application Paradigm," *Indian Journal of Science & Technology*, vol. 9, no. 19, pp. 1-42, May 2016. DOI: 10.17485/ijst/2016/v9i19/53088. **WoS Master Journal List**
56. Irfan Ullah, Shah Khusro, Habib un Nabi, and Rafi Ullah, "StudentPIMS: A Smartphone-Based Personal Information Management System for Students," *International Journal of Computer Science and Information Security*, vol. 14, no. 4, pp. 366-380, Apr. 2016. **WoS Master Journal List**
57. Inayat Khan, Shah Khusro\*, Shaukat Ali, and Aziz Uddin, "Daily Life Activities on Smartphones and Their Effect on Battery Life for Better Personal Information Management," *Proceedings of the Pakistan Academy of Sciences: A. Physical and Computational Sciences*, vol. 53, no. 1, pp. 61-74, Mar. 2016. **HEC Category X**
58. Mumtaz Khan, Shah Khusro\*, and Irfan Ullah, "On Annotation of Video Content for Multimedia Retrieval and Sharing," *International Journal of Computer Science and Information Security*, vol. 14, no. 3, pp. 198-218, Mar. 2016. **WoS Master Journal List**
59. Fouzia Jabeen, Shah Khusro\*, Amna Majid, and Azhar Rauf, "Semantic Discovery in Social Tagging Systems: A Review," *Multimedia Tools and Application*, vol. 75, no. 1, pp. 573-605, Jan. 2016. DOI: 10.1007/s11042-014-2309-3. **JCR/IF**
60. Fouzia Jabeen and Shah Khusro\*, "Quality-protected folksonomy maintenance approaches: a brief survey," *The Knowledge Engineering Review*, Cambridge University Press, vol. 30, no. 5, pp. 521-544, Oct. 2015. DOI: [10.1017/S0269888915000120](https://doi.org/10.1017/S0269888915000120). **JCR/IF**
61. Akif Khan and Shah Khusro\*, "The Rise of Augmented Reality Browsers - Trends, Challenges and Opportunities," *Pakistan Journal of Science*, vol. 76, no. 3, pp. 288-300, Sep. 2015. **HEC Category Y**
62. B. Aslam, J. Ahmad, A. Ali, R.Z. Paracha, S.H.K. Tareen, S. Khusro, T. Ahmad, S.A. Muhammad, U. Niazi, and V. Azevedo, "Structural modeling and analysis of dengue-mediated inhibition of interferon signaling pathway," *Genetics and Molecular Research*, vol. 14, no. 2, pp. 4215-4237, Apr. 2015. DOI: 10.4238/2015.April.28.4. **JCR/IF**
63. Akif Khan, Shah Khusro\*, Azhar Rauf, and Saeed Mahfooz, "Rebirth of Augmented Reality - Enhancing Reality via Smartphones," *Bahria University Journal of ICT*, vol. 8, no. 1, pp. 110-121, Apr. 2015. **HEC Category Y**
64. Fakhre Alam, Samiur Rahman, Shah Khusro, and Shaukat Ali, "Towards a Semantic Web Stack Applicable for Both RDF and Topic Maps: A Survey," *Technical Journal*, vol. 20, no. 2, pp. 114-124, Apr. 2015. **HEC Category Y**
65. Fakhre Alam, Mohammad Abid, Sami Ur Rahman, Shah Khusro, and Shaukat Ali, "Resource Description Framework and Topic Maps: Complementary or Competitive? A Survey," *Proceedings of the Pakistan Academy of Sciences*, vol. 52, no. 1, pp. 1-14, March 2015. **HEC Category X**
66. Fakhre Alam, Sami Ur Rahman, Shah Khusro, and Shaukat Ali, "A Roadmap for Killer Applications Resource Description Framework (RDF) and Topic Maps," *Science International*, vol. 27, no. 1, pp. 185-190, Feb. 2015. **WoS Master Journal List/HEC Category Z**
67. Shaukat Ali, Shah Khusro\*, Laiq Hassan, and Asif Ali, "A Survey of Mobile Phones Context-Awareness using Sensing Computing Research," *Journal of Engineering and Applied Sciences*, vol. 33, no. 2, pp. 75-93, Dec. 2014. **HEC Category X**
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