

Dr. SAJID ULLAH KHAN

Assistant Professor, CECOS University of IT and Emerging Sciences, Peshawar

Objective: I want a rewarding career where I can use my skills and knowledge for organizational and personal growth.

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EDUCATION

2016-2017	Post doctorate (Post-doc)	Universiti Malaysia Sarawak (UNIMAS), Malaysia
2011-2015	PhD (Computer System and Software Engineering) Specialization: Image Processing & Computer Vision	Universiti Malaysia Sarawak (UNIMAS), Malaysia
2006-2008	MS (Computer Science)	University of Science and Technology, Bannu
2005	B.I.T (4 Years)	Gomal University, D.I.Khan
2000	HSSC	Board of Intermediate and Secondary Education, Bannu
1998	SSC	Board of Intermediate and Secondary Education, Bannu

RESEARCHPROJECTS

(Completed):

1. An Image Enhancement Approach For Dual Energy X-Ray System To Improve the Accuracy of Object Detection And Screening Processes(Co-Researcher)

(May, 2012- October, 2013).

The project was under the Unimas Holding SDN BHD and completed successfully.

2. Flood Plain Mapping using Remote Sensing and GIS Technology (Co-Researcher)

(January, 2014 - June, 2014).

The project was funded by an **e-science grant** and completed successfully.

3. A Combinational Approach for Airport Dual Energy X-ray Baggage Systems (Co-Researcher) (1st September, 2016 to November, 2017)

The project was under Post doctorate funding and completed successfully.

4. A New Semantic Extraction Algorithm for Automatic Road Density Estimation (Co-Researcher) (February, 2017 – December, 2017)

The project was funded by UNIMAS Holding SDN BHD and completed successfully.

(In-Progress):

1. Vulnerabilities and Resilience of Climate Shocks in Indigenous Communities (Co-Researcher) (May, 2018 - November, 2019).

The project is a part of MoA between **UNIMAS Holdings SDN BHD** and **CECOS University** and progressing smoothly.

2. An android based image analysis system to detect and medicate skin disease (Project Leader) (August, 2018 – July, 2019)

The project is funded by National Grass-root ICT Research Initiative.

3. Mixed Reality App for Gor-Khatri Cultural Site (Project Leader)

(September, 2018 – August, 2019)

The project is funded by Office of Research, Innovation and Commercialization (ORIC), CECOS university.

AWARDS/SCHOLARSHIPS

1. UNIMAS GRADUATE SCHOLARSHIP (ZSU)

UNIMAS Graduate Scholarship (ZAMALAH SISWAZAH UNIMAS) awarded to pursue PhD studies in Universiti Malaysia Sarawak, Malaysia.

TEACHING EXPERIENCE (10 Years)

1. CECOS University of IT & Emerging Sciences (3 Year, 2 Months)

I am working as an Assistant Professor (CS) in CECOS University of IT and Emerging Sciences, Peshawar (15th August, 2015 to date).

2. Universiti Malaysia Sarawak, Malaysia (2 Semester (1 Year)

I have worked as a Tutor in FCSIT Department (UNIMAS) (15th March, 2012 to 20th February, 2013).

3. University of Science and Technology, Bannu (2 Years)

I have worked as a Computer Lab Engineer/Visiting Lecturer in University of Science and Technology, Bannu (4th July, 2009 to 30th August, 2011).

4. Government College of Technology, Bannu (2 Years, 9 Months)

I have worked as a Lecturer (CS) in Govt. College of Technology, Bannu (28th June, 2006 to 31st March, 2009).

5. Peshawar College of Engineering, Peshawar (1 Year)

I have worked as a visiting Lecturer in Peshawar College of Engineering, Peshawar (10th July, 2005 to 27th June, 2006).

RESEARCH EXPERIENCE (4 Years)

1. Universiti Malaysia Sarawak, Malaysia (6 Months)

I have worked as a Co-Researcher in Flood Plan Mapping using Remote Sensing and GIS Technology Project granted by Ministry of Higher Education (MOHE), Malaysia (1st January, 2014 to 30th June, 2014).

2. Universiti Malaysia Sarawak, Malaysia (1 Year and 6 Months)

I have worked as a Co-Researcher in Center of Excellence for Image Analysis and Spatial Technologies Lab (CoIMAST) from 1st May, 2012 to 31st October, 2013.

3. Universiti Malaysia Sarawak, Malaysia (10 Months)

I have worked as a Co-Researcher in the project “A New Semantic Extraction Algorithm for Automatic Road Density Estimation” under the UNIMAS special grant from February, 2017 to December, 2017.

4. Universiti Malaysia Sarawak, Malaysia (1 Year, 2 Months)

I have worked as a Co-Researcher in the project “A Combinational Approach for Airport Dual Energy X-ray System” under Post-doc grant from 1st September, 2016 to date.

PUBLICATIONS (Journals)

(Published/Accepted)

(2017-18)

1. **Khan, S. U.**, Ullah, N., Ahmed, I, Irshad, A., and Wang, Y. C. (2017). MRI Imaging, Comparison of MRI with other Modalities, Noise in MRI Images and Machine Learning Techniques for Noise Removal: A Review, *Current Medical Imaging Reviews*, Accepted. (ISI Indexed with impact factor 0.299)

<http://www.eurekaselect.com/164051>

2. **Khan, S. U.**, Ullah, N., Ahmed, I., Wang, Y. C., and Ullah, S. (2017). MRI Images Enhancement Using Genetic Programming Based Hybrid Noise Removal Filter Approach, *Current Medical Imaging Reviews*, Accepted. (ISI Indexed with impact factor 0.299)

<http://benthamscience.com/journals/current-medical-imaging-reviews/epub-ahead-of-print/#top>

3. **Khan, S. U.**, Ahmed, I., Javed, M.A., and Wang, Y. C. (2017). A New Learning Based Coding Approach for Medical Image Compression, *Journal of Information Processing Systems*, Accepted. (ISI Indexed)

4. **Khan, S. U.**, Ullah, N., Ahmed, I., Wang, Y. C., and Ullah, S. (2017). A New Hybrid Approach for Medical Image Compression, *Current Medical Imaging Reviews*, Accepted. (ISI Indexed with impact factor 0.299)

<http://benthamscience.com/journals/current-medical-imaging-reviews/epub-ahead-of-print/#top>

(2016)

1. Rauf, A., Aurangzeb, K., Ahmad, I., Ullah, S., Ullah, N., and **Khan, S. U.**, (2016). A Close Assessment and Analysis of Public Wi-Fi. *International Journal of Computer Science and Information Security*, 14 (9), 165-173. (ISI Indexed)

2. **Khan, S. U., Ullah, N., Wang, Y. C., and Chai S. S.** (2016). Digital Images Enhancement using Tiny Character Adjustment and Referenced Image Approach. *Journal of Multimedia Processing and Technologies*, 7(3), 102-108.
3. **Khan, S. U., Ullah, N., Wang, Y. C.** (2016). An Algorithm for Bone Crack Isolation and Enhancement in X-ray Images. *International Journal of Computer Science and Information Security*, 14(8), 621-638. (ISI Indexed)
4. **Khan, S. U., Ullah, N., Wang, Y. C., Rauf, A.** (2016). A Close Assessment of X-ray Image Enhancement Techniques for Contraband Detection. *International Journal of Computer Science and Information Security*, 14 (8), 282-286. (ISI Indexed)
5. **Khan, S. U., Wang, Y. C., Chai, S. S., Khan, A.** (2016). X-ray image enhancement using boundary division wiener filters and wavelet-based image fusion approach. *Journal of Information Processing Systems*, 12(1), 35-45. Doi: 10.3745/JIPS.02.0029. (ISI Indexed)

(2015 and underneath)

1. **Khan, S. U., Salim, K.** (2015). A Novel Approach for Area of Interest Enhancement in X-ray Image, *International Journal of Research*, 2(9), 726-729.
2. **Khan, S. U., Wang, Y. C., & Chai, S. S.** (2014). A survey on X-ray image de-noising by various filters for different noise, *International Journal of Research*, 2(5), 277-281.
3. **Khan, S. U., Wang, Y. C., & Chai, S. S.** (2014). Layer discrimination with non-zero adjacent element elimination and pixel restoration wiener filter approach for impulse & Poisson noise removal from X-ray images, *Science International*, 26(3), 1045-1049. (ISI Indexed)
4. **Khan, S. U., Wang, Y. C., & Chai, S. S.** (2013). A novel noise removal technique of X-ray carry-on luggage for detection of contraband/illicit object(s), *International Journal of Engineering and Advance Technology, (IJEAT)*, 2(3), 94-99.
5. **Khan, S. U., & Wang, Y. C.** (2012). An image enhancement technique of X-ray carry-on luggage for detection of contraband/illicit object(s), *International Journal of Computer Science Issues, (IJCSI)*, 9(1), 205-211.

Books

1. **Khan, S. U.**, Wang, Y. C., & Chai, S. S. (2013). X-ray Technology, Noises in X-ray Images, Causes & Solution, *Lambert Academic Publishing* Germany.

Conference Papers

1. **Khan, S. U.**, Khan, N. U., Khan, A. (2016). *Impulse Noise Reduction using Image Fusion Approach*, Sixth International Conference on Innovative Computing Technology (INTECH 2016), September, 19-21, 2016, Islamabad, Pakistan. [IEEE](#).
2. **Khan, S. U.**, Wang, Y. C., & Chai, S. S. (2013). X-ray image de-noising by various filters for different noise. *2013 5th International Conference on Signal Acquisition and Processing (ICSAP 2013)*, September, 7-8, 2013, Shanghai, China.

Symposiums and Workshops

- Conducted workshop on “ICT for Socio-Economic Development” Department of Computer Science, CECOS University of IT and Emerging Sciences, Pakistan, 2016.
- Presented “X-ray Images De-Noising Framework”, In Conference on IT in Asia 2013. Kuching: Faculty of Computer Sciences and Information Technology, University Malaysia Sarawak.
- Attended workshop on “**Research & Development Expo**”, CAIS, UNIMAS, 22rd – 23rd March, 2012.
- Attended workshop on “**Achieving Research Impact**”, CAIS, UNIMAS, Feb, 2012.

Conference Attended

1. International Conference on Information Technology in Asia (CITA, 2013), Kuching Malaysia, July, 2013.
2. Knowledge Technology Week (KTW, 2012), Sarawak, Kuching Malaysia, 5th – 7th Sep, 2012.

Conference Posters

1. **Khan, S. U.**, Wang, Y. C., & Chai, S. S. (2014). An Image Enhancement Approach for Dual Energy X-ray System to Improve Screener Efficiency and Post Processing. *In*

Conference on IT in Asia 2013, Kuching: Faculty of Computer Sciences and Information Technology, University Malaysia Sarawak.

REVIEWER

- **Cluster Computing (Springer)**
- **International Journal of Computer Vision and Image Processing (IJCVIP)**
- International Conference on Innovative Computing Technology (INTECH, 2016)
- 8th International Conference on Education Technology and Computers (ICETC 2016)
- 2016 International Conference on Communication and Information Systems (ICCIS 2016)

SPECIAL COURSES

- **Cisco Certified Network Associate (CCNA)**
November 2005: Course work completed at INARA Institute of Technology, Peshawar, Pakistan
- **Computer Network and Communication**
April 2007: One-week training Certificate in Computer Network and Communication from Higher Education Commission, Pakistan held in UST, Bannu.

OTHER RESPONSIBILITIES

- Research Advisor in CECOS University of IT and Emerging Sciences.
- Worked as a Welfare officer in Postgraduate Committee of FCSIT, UNIMAS.
- Co-organizer of Final Year Projects for Undergraduate Students, FCSIT, UNIMAS.

SUBJECT OF INTEREST

- Image Processing & Computer Vision
- Working with Matlab 2013a
- Programming Fundamentals (C & C++)
- Introduction to Computing and Communication
- Advance Operating System
- Advance Databases
- Data Mining & Data Warehousing

- Web Databases
- E-Commerce
- Advance Computer Architecture
- Software Engineering
- Data Structure, System Analysis and Design

ADDITIONAL INFORMATION

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|-----------|-----------------------|
| • English | Speak, Read and Write |
| • Urdu | Speak, Read and Write |
| • Pashto | Speak, Read and Write |
| • Arabic | Read and Write |
| • Malay | Understand Only |

REFERENCES

- **Prof. Dr. Wang Yin Chai**
Professor; Universiti Malaysia Sarawak, MALAYSIA
wangyinchai@gmail.com
- **Prof. Dr. Riaz A. Khattak**
Vice Chancellor, CECOS University, Peshawar, Pakistan
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