



National Testing Service - Pakistan
Building Standards in Educational and Professional Testing

Kohat University of Science & Technology, Kohat
(Test for MPhil & PhD Admission Session 20-21)
Test Held on: Sunday 21st February, 2021

(Result)

Search Result for the keyword " 141016777057 "

Roll No	Name	Father Name	CNIC	Paper Type	NTS Marks
20155	MUHAMMAD KARIM	LAL MUHAMMAD	14101-677705-7	SATC	64

Current Date / Time: Thursday 25th February 2021 , 10:39:19 PM



KOHAT UNIVERSITY OF SCIENCE & TECHNOLOGY

Kohat 26000, Khyber Pakhtunkhwa, Pakistan Ph # 0922-054003-054606, Fax #. 054556

No.KUST/DASR/Fall-22/loC/ 503

February 15, 2023

The Director,
Institute of Computing,
KUST

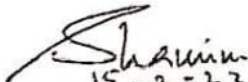
Subject: **APPROVAL OF SUPERVISORS**

Dear Sir,

The Competent Authority has approved the following faculty members to act as Supervisor and Co-supervisor in respect of the below-mentioned scholars:

NAME OF SCHOLAR	SUPERVISOR	CO-SUPERVISOR
Samina	Dr. Muhammad Irfan Uddin, Institute of Computing	Dr. Wali Khan Mashwani, Institute of Numerical Sciences
Sajid Ullah	Dr. Muhammad Irfan Uddin, Institute of Computing	Dr. Muhammad Adnan, Institute of Computing
Asim Wadood	Dr. Muhammad Irfan Uddin, Institute of Computing	Dr. Muhammad Adnan, Institute of Computing
Munir Hussain	Dr. Amjad Mahmood, Institute of Computing	Dr. Muhammad Altaf, Institute of Computing
Arsalan Farooq	Dr. Muhammad Irfan Uddin, Institute of Computing	Dr. Muhammad Adnan, Institute of Computing
Muhammad Karim	Dr. Muhammad Irfan Uddin, Institute of Computing	Dr. Muhammad Adnan, Institute of Computing
Shamsham Kiran	Dr. Amjad Mahmood, Institute of Computing	Dr. Muhammad Altaf, Institute of Computing
Abrar Khan	Dr. Amjad Mahmood, Institute of Computing	Dr. Muhammad Altaf, Institute of Computing

Note: The case of Ali Zeb will be processed subject to the provision of NOC for admission to Ph.D. Program.


15-2-23
Dr. Shamim Saleha
Director ASR, KUST

Copy to:

1. Director, Institute of Computing
2. Dr. Wali Khan Mashwani, Institute of Numerical Sciences
3. Dr. Muhammad Irfan Uddin, Institute of Computing
4. Dr. Muhammad Altaf, Institute of Computing
5. Dr. Muhammad Adnan, Institute of Computing
6. Master File
7. Office File



KOHAT UNIVERSITY OF SCIENCE & TECHNOLOGY

Kohat 26000, Khyber Pakhtunkhwa, Pakistan Ph # 0922-554563-554565, Fax #. 554556

No.KUST/DASR/Fall-22/IoC/ 635

February 28, 2023

The Director,
Institute of Computing,
KUST.

Subject: APPROVAL OF COURSE WORK IN RESPECT OF MUHAMMAD KARIM, MS RESEARCH SCHOLAR IN COMPUTER SCIENCE

Dear Sir,

Please refer to your letter No. 149/KUST/IoC/AS&R/23 dated 27.02.2023 regarding the subject matter; the following courses are approved duly recommended by the DGC in respect of Muhammad Karim, Registration No. CS320211002, in your institute for the session 2021-22.

S.#	Course Code	Course Title	Core/Specialized / Elective Courses	Cr.Hrs	Grade
1.	CS-516	Advance Analysis of Algorithms	Elective	3.00	A-
2.	CS-531	Advance Computer Architecture	Compulsory	3.00	A
3.	CS-576	Advance Network Security	Elective	3.00	B+
4.	CS-515	Theory of Computations	Specialized	3.00	A-
5.	CS-517	Advanced Operating Systems	Compulsory	3.00	B+
6.	CS-661	Advance Machine Learning	Specialized	3.00	A
7.	CS-542	Computer Vision	Specialized	3.00	B+
8.	CS-501	Tools and Techniques for Data Science	Elective	3.00	C+

The scholar scored (CGPA 3.60/4.00) as per Academic Regulations for Graduate Program and is now eligible to proceed to the next post of action desired.

Dr. Shamim Saleha
Director ASR, KUST

Copy to:

1. Vice Chancellor
2. Master File
3. Office File

RegNo CS320211002
 Student Name MUHAMMAD KARIM
 Degree Program MS-Cs-IIT-KUST

	Course Code	Course Title	Credit Hours	Percentage	Grade Points	Grade
SEMESTER-1---SPRING-2021						
1	CS-516	Advance Analysis of Algorithms	3.0	85.00	3.92	A-
2	CS-531	Advance Computer Architecture	3.0	86.00	4	A
3	CS-576	Advance Network Security	3.0	81.00	3.58	B+
Semester Credit Hrs:			9	GPA: 3.83	SGPA: 3.83	
SEMESTER-2---FALL-2021						
1	CS-515	Theory of Computations	3.0	85.00	3.92	A-
2	CS-517	Advanced Operating Systems	3.0	79.00	3.42	B+
3	CS-661	Advance Machine Learning	3.0	88.00	4	A
Cumulative Credit Hrs:			18	CGPA: 3.81	SGPA: 3.78	
SEMESTER-3---SPRING-2022						
1	CS-542	Computer Vision	3.0	80.00	3.5	B+
2	DS-501	Tools and Techniques for Data Science	3.0	67.00	2.42	C+
Cumulative Credit Hrs:			24	CGPA: 3.60	SGPA: 2.96	
SEMESTER-4---FALL-2022						
1	CS-691	Research	6.0		0	IP
Cumulative Credit Hrs:			30	CGPA: 3.60	SGPA:	
SEMESTER-5---SPRING-2023						
1	CS-691	Research	6.0		0	IP
Total Credits Earned : 36		CGPA : 3.60				

8/17/23, 1:59 PM

KUST CMS

Cumulative Credit Hrs:		36	CGPA: 3.60	SGPA:
Total Credits Earned : 36	CGPA : 3.60			

© 2015 . Kohat University of Science & Technology, Kohat

**PROCEEDING OF THE MEETING OF
THE ADVANCE STUDIES &
RESEARCH BOARD (ASRB), DATED
10.04.2023**

A meeting of the Advance Studies and Research Board was held on 10.04.2023 at 09:00 am in the Ibn-al-Haytham Conference Hall. The following members attended the meeting:

In Chair

Prof. Dr. Sardar Khan
Vice Chancellor, Kohat University of Science and Technology, Kohat

Members

1. **Prof. Dr. Syed Tasleem Hussain**
Dean, Faculty of Chemical and Pharmaceutical Sciences
2. **Prof. Dr. Shahid Niaz Khan**
Dean, Faculty of Biological Sciences
3. **Prof. Dr. Muhammad Naseer ud Din**
Dean, Faculty of Social Sciences
4. **Prof. Dr. Wali Khan**
Dean, Faculty of Physical and Numerical Sciences
5. **Prof. Dr. Muhammad Jamil**
Department of Biotechnology and GE
6. **Prof. Dr. Muhammad Iqbal Khan**
Department of Chemistry
7. **Dr. Saeed Ahmad Khan**
Associate Professor, Department of Pharmacy
8. **Dr. Sammar Abbas**
Associate Professor, Institute of Business Studies
9. **Dr. Saad Ullah Khan**
Associate Professor, Department of Biotechnology and GE

10. **Dr. Muhammad Zeeshan Bangash**
Director, Quality Enhancement Cell

11. **Dr. Wasiullah Malik**
Director, ORIC, KUST

12. **Prof. Dr. Rozina Gul**
Department of Plant Breeding and Genetics, Agriculture University, Peshawar

13. **Dr. Mehnaz Gul**
Associate Professor, Institute of Management Studies, University of Peshawar

14. **Dr. Shamim Saleha**
Director, Advance Studies and Research

A- Ph.D. SUMMARY CASES

Institute of Business Studies

Agenda Item No.1

Muhammad Murtaza, PhD Scholar of Management Sciences (Reg. #MS420162001)

Research Title: As approved in the 73rd meeting of ASRB.

THE IMPACT OF CORPORATE GOVERNANCE AND OWNERSHIP STRUCTURE ON DIVIDEND PAYOUTS IN NON-FINANCIAL SECTOR OF PAKISTAN

RESEARCH PROPOSAL: As approved in the 73rd meeting of ASRB.

Decision: The Board discussed and approved Mr. Muhammad Murtaza's dissertation summary and recommended that his Ph.D., dissertation may be sent to two international and a national (internal) reviewers/examiners

RESEARCH PROPOSAL: Approved with changes

Decision: Submit a revised synopsis to the Directorate of ASR after incorporating the suggestions/modifications pointed out by the Board as given below:

1. Do correction for text line spacing as per KUST format.
2. Write significance of study in understandable texts in introduction.
3. Add number to first equation in proposed methodology.
4. Revise methodology by writing a short descriptive text of methods/steps/approaches that will be used to conduct proposed research (use future tense).
5. Correct referencing errors.
6. Replace "research plan" with "time frame".

Note: The revised synopsis will be checked by Department Graduate Committee and then will issue a certificate of corrections.

MS Synopsis in Computer Science

Agenda Item No.7

Muhammad Karim, MS Scholar in Computer Science (Reg. #CS320211002)

Research Title: Approved

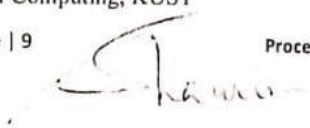
INTERPRETING MACHINE LEARNING MODELS LOCAL AND GLOBAL PREDICTIONS BY LEVERAGING EXPLAINABLE ARTIFICIAL INTELLIGENCE

Supervisor-I:

Dr. Muhammad Irfan Uddin,
Institute of Computing, KUST

Supervisor-II:

Dr. Muhammad Adnan,
Institute of Computing, KUST



RESEARCH PROPOSAL: Approved with changes

Decision: Submit a revised synopsis to the Directorate of ASR after incorporating the suggestions/modifications pointed out by the Board as given below:

1. Do correction in title on all pages that has already been done on title page.
2. Introduction is very lengthy, reduce it.
3. Merge and rephrase objectives.
4. Do corrections of personalized terms such as "we" in text of synopsis and use generalized terms.
5. How the data in the OULA data set will be labeled weekly or monthly? Answer of this question should be reflected in problem statement, objective and methodology.
6. The data set OULA is for online learning. How the data set will be compatible for traditional class room-based learning?
7. How the sparseness of the data will be removed or lowered?
8. How the information about the submitted assignments will be presented?
9. Each course has different type and number of assignments, and these are submitted by few students, which suggests a high sparsity in the data. Discuss in methodology.
10. The results of the proposed models will be based on which influential factors?
11. What other background factors will be considered for the students in predicting the performance?
12. Whether the study will also predict that student will pass or fail? Answer / clarification with respect to this point in the methodology or needs to be reflected in the problem statement and in the objective to define what the performance predictions means for a student.
13. Correct referencing errors.
14. Delete a statement before table of time frame.

Note: The revised synopsis will be checked by Departmental Graduate Committee and then will issue a certificate of corrections

M.Phil. Synopsis in Physics

Agenda Item No.8

Syed Sheheryar Mansoor, M.Phil. Scholar in Physics (Reg. #PH320202015)

Research Title: Approved

A SIMULATION STUDY OF STRUCTURAL, ELASTIC AND OPTOELECTRONIC PROPERTIES OF ALUMINIUM BASED FLUOROPEROVSKITE AiX_3 (X=CA, CD AND BE)

Supervisor-I:

Dr. Sajid Khan,
Department of Physics, KUST

Supervisor-II:

Dr. Rashid Ahmad,
Department of Physics, KUST

RESEARCH PROPOSAL: Approved with changes

Decision: Submit a revised synopsis to the Directorate of ASR after incorporating the suggestions/modifications pointed out by the Board as given below:

1. Write title of synopsis on title page as per KUST format. In addition, delete Registration No. on title page as well.
2. There are space problems between the words. Remove these problems from the whole synopsis.
3. Change numbers with bullets by separating research questions and objectives.
4. Rephrase objectives for more clarity, use appropriate verbs in objectives and start with "to".

5. Add numbers to equations in proposed methodology.
6. Write names of specific/appropriate of data analysis tools that will be used in proposed methodology.
7. Correct referencing errors.
8. There is no uniformity in the time frame format, revise it correctly as per University format.

M.Phil. Synopsis in Economics

Agenda Item No.9

Fareeha Nawaz, M.Phil. Scholar in Economics- (Reg. #EC320212003)

Research Title: Approved

THE INFLUENCE OF AGRICULTURAL LAND CONVERSION ON FOOD SECURITY IN DISTRICT KOHAT

Supervisor-I:

Dr. Dilawar Khan,
Department of Economics, KUST

Supervisor-II:

Dr. Ihtisham ul Haq,
Department of Economics, KUST

RESEARCH PROPOSAL: Approved with changes

Decision: Submit a revised synopsis to the Directorate of ASR after incorporating the suggestions/modifications pointed out by the Board as given below:

1. Delete title before introduction.
2. Introduction is lengthy, reduce it.
3. Write significance of study in last paragraph of introduction instead of writing under a subheading "significance of the study".
4. Change numbers with bullets by separating research questions and objectives. In addition, delete statements before research questions and objectives.



KOHAT UNIVERSITY OF SCIENCE & TECHNOLOGY

Kohat 26000, Khyber Pakhtunkhwa, Pakistan Ph # 0922-554563-554565/4786, 4785, Fax # 554556

Directorate of Quality Enhancement

No. 1003 /KUST/QEC/PC/23

Date: 25/8/2023

Anti-Plagiarism Test Certificate

(Similarity Index Certificate)

For M.Phil./MS/Ph.D Thesis/Synopsis

Name of Scholar: MUHAMMAD KARIM

Discipline (M.Phil./MS/Ph.D.): MS

Department/Institute: INSTITUTE OF COMPUTING

Title of Synopsis/Thesis: INTERPRETING MACHINE LEARNING MODELS LOCAL AND GLOBAL PREDICTIONS BY LEVERAGING EXPLAINABLE ARTIFICIAL INTELLIGENCE

Document Type (Synopsis/Thesis) Thesis

Words Count 27952

Name and Designation of Supervisor DR. IRFAN UDDIN, ASSOCIATE, PROFESSOR.
INSTITUTE OF COMPUTING, KUST

Plagiarism software Turnitin.com
(Similarity Index Checking)

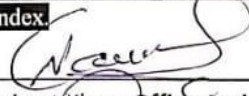
Software Generated ID for the document and Date 2150990685
(Report generated on 25 August, 2023, 11: 09
PKT evidence attached)

Contents Excluded from the document Table of Contents, References and other Preliminary Pages


Matching (Similarity) Index found **10% (Ten Percent only)**

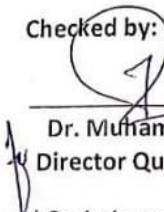
Findings/Comments by QEC The Similarity index of the document lies within the acceptable range (less than or equal to 19%) set by Higher Education Commission (HEC) Pakistan.
The document is Not Plagiarized on the basis of similarity index.

Prepared by:


Naimat Khan, Office Assistant

Checked by:


Dr. Faisal Mehmood, Asst. Director


Dr. Muhammad Zeeshan Bangash
Director Quality Enhancement Cell

Note: Technical Errors and Omissions are subject to be rectified.

Turnitin user: datanalyst.qecac@kust.edu.pk



KOHAT UNIVERSITY OF SCIENCE & TECHNOLOGY

Kohat 26000, Khyber Pakhtunkhwa, Pakistan Ph # 0922-554563-554565/4786, 4785, Fax # 554556

Directorate of Quality Enhancement

Turnitin Originality Report

Document: Interpreting Machine Learning Models Local en... By Muhammad Karim

Plagiarism or 15 Aug 2023 11:09 AM
 ID: 210890481
 Word Count: 2792
 Submitted: 1

Similarity Index	Excluded Sources	Excluded Factors
10%	0%	0%

exclude quoted | include bibliography | exclude small matches | make | lock view | class report | print | refresh | download

- 1% match (Muhammad Akbar, N. Jian Uddin, Emel Khan, Fahd S. Altamimi, Samia Amin, Ahmad A. Alzahrani. "Earliest Possible Global and Local Interpretation of Students' Performance in Virtual Learning Environment by Leveraging Explainable AI". IEEE Access, 2022)
- 1% match (Muhammad Akbar, N. Jian Uddin, Emel Khan, Fahd S. Altamimi, Samia Amin, Ahmad A. Alzahrani. "Earliest Possible Global and Local Interpretation of Students' Performance in Virtual Learning Environment by Leveraging Explainable AI". IEEE Access, 2022)
- 1% match (Muhammad Akbar, N. Jian Uddin, Emel Khan, Fahd S. Altamimi, Samia Amin, Ahmad A. Alzahrani. "Earliest Possible Global and Local Interpretation of Students' Performance in Virtual Learning Environment by Leveraging Explainable AI". IEEE Access, 2022)
- 1% match (Muhammad Akbar, N. Jian Uddin, Emel Khan, Fahd S. Altamimi, Samia Amin, Ahmad A. Alzahrani. "Earliest Possible Global and Local Interpretation of Students' Performance in Virtual Learning Environment by Leveraging Explainable AI". IEEE Access, 2022)
- 1% match (Muhammad Akbar, N. Jian Uddin, Emel Khan, Fahd S. Altamimi, Samia Amin, Ahmad A. Alzahrani. "Earliest Possible Global and Local Interpretation of Students' Performance in Virtual Learning Environment by Leveraging Explainable AI". IEEE Access, 2022)
- 1% match (Internet from 18-Jun-2022)
- 1% match (Internet from 23-Jan-2018)
- 1% match (Internet from 29-Nov-2017)
- 1% match (Steven C.H. Hoi, Doyen Sahoo, Jing Lu, Feihu Zhou. "Online Learning: A comprehensive survey". Neurocomputing, 2022)
- 1% match (Internet from 27-Feb-2021)
- 1% match (Student papers from 10-Sep-2022)
- 1% match (Student papers from 10-Apr-2022)

Class: MS Synopsis without Repository
 Assignment: MS/PhD Thesis Work Repository
 Paper ID: 210890481


 Director Quality Enhancement Cell
 KUST
 /20

Note: Technical Errors and Omissions are subject to be rectified.

Turnitin user: datanalyst.qecac@kust.edu.pk



KOHAT UNIVERSITY OF SCIENCE & TECHNOLOGY
INSTITUTE OF COMPUTING

Ref: 346 IoC/Dept. Presentation/23
May 15, 2023.

CIRCULAR

It is hereby circulated for the information of all concerned that **Mr. Muhammad Karim**, course registration no. CS320211002, MS scholar in Computer Science will deliver departmental presentation titled "**Interpreting Machine Learning Models Local and Global Predictions by Leveraging Examinable Artificial Intelligence**" May 18, 2023 (Thursday) at 01:00 pm in the IoC conference hall.

All respected faculty members and graduate students are invited to attend the mentioned event on given date, time and venue.


Director

Institute of Computing

Copy to:

1. Dean, Faculty of Physical & Numerical Sciences
2. Director AS&R
3. Director QEC
4. Director Academics
5. Coordinator MS/Ph.D. *(with request to inform all IoC MS and PhD Scholars to attend the presentation)*
6. Office file

CS320211002



KOHAT UNIVERSITY OF SCIENCE & TECHNOLOGY
INSTITUTE OF COMPUTING

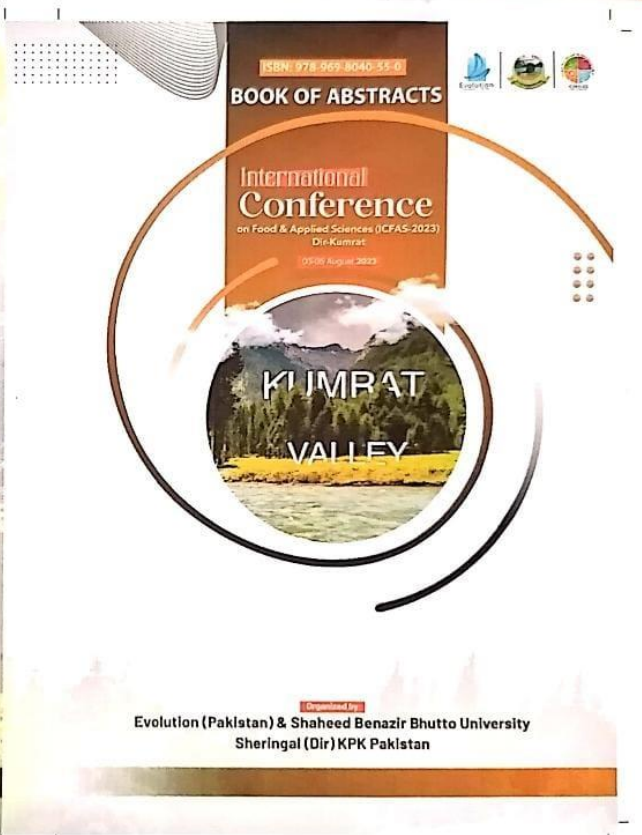
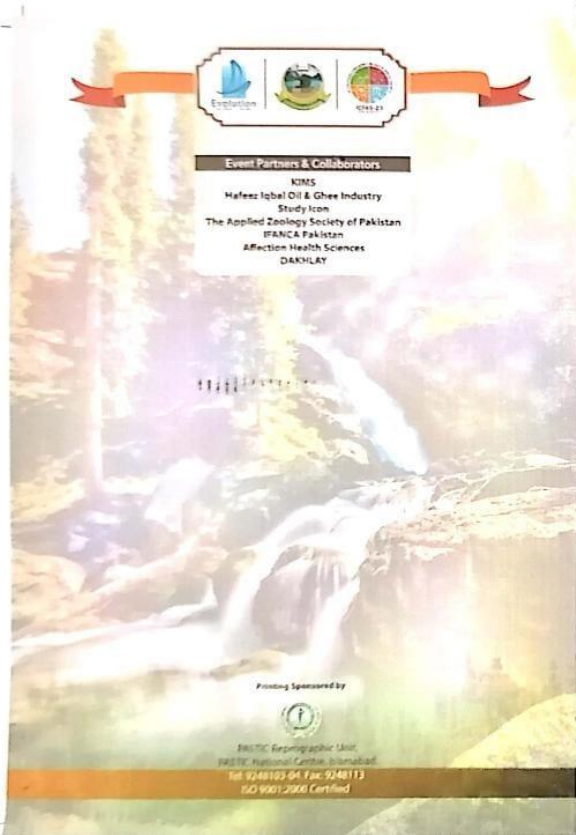
Title of Dissertation: Interpreting Machine Learning Models Local and Global Predictions by Leveraging Examinable Artificial Intelligence

Presenter: Mr. Muhammad Karim, course registration no. CS320211002, MS. Scholar in Computer Science

18-05-2023

S.No	Name	Signature
01	Dr. M. Adnan	
02	Faiz Malik Paracha	
03	M. Danyal	
03	Dr. Irfan Uddin	
04	Izhar Muhammad	
05	Ali Hassan	
06	Asim Rehman	
07	Jamal Qasim	
8	Amal Taj	
9	Asad ullah	
10	Fayazullah Khan	
11	Haris Iqbal	
12	Zohaib Abbas	
13	Tabinda Qudrat	
14	Mr. Qadeem Khan	
15	M. T. (M. Tufail)	
16	Qasim	
17	Muhammad Iqbal	

Coordinator
MS Program
Institute of Computing



BOOK OF ABSTRACTS
International Conference on Food & Applied
Sciences (ICFAS-23)



August 03-05, 2023
Dir-Kumrat, Pakistan

Organized by



Shaheed Benazir Bhutto University
(SBBU) Sheringal (Dir KPK)



Evolution
(Pakistan)

In collaboration with
PASTIC, IFANCA Pakistan & Applied Zoological Society of
Pakistan

The material in the book may not be copied or reproduced without permission of authors.

ISBN: [978-969-8040-55-0](#)

BOOK OF ABSTRACTS

*International Conference on Food & Applied Sciences (ICFAS-23)
August 03-05, 2023*

Composed by: Mrs. Shazia Parveen, PASTIC

Edited By: Dr. Maryum Ibrar, PASTIC

Cover Designed by: Muhammad Arif Khan, PASTIC

Published & Printed by

**Pakistan Scientific and Technological Information Centre,
(PASTIC), Islamabad**

TABLE OF CONTENT

ORGANIZING COMMITTEE.....	i
INTRODUCTION	v
ABOUT PASTIC	vi
A Comparative Study on the Activity of Mulberry: a Novel Antioxidant.....	237
A dynamic learning decision-making method for achieving industry 5.0 objectives as case study in the bioengineering and biomedical engineering industry of Pakistan.....	132
A First Principles Study of Structural, Electronic and Optical Properties of Janus Monolayer InSSe under External Electric Field and Strain.....	153
A Generic Split-Gfp-Based Reporter System for Agrobacterium-Mediated Protein Translocation in Plants.....	88
A Simulation Study of Structural, Elastic and Optoelectronic Properties of Aluminium Based Fluoroperovskite AlX_3 (X = Ca, Cd and Be)	280
A Simulation Study of Structural, Elastic, Electronic and Optical Properties of Gallium Based Fluoroperovskite Compounds $GAXF_3$ (X= CA, CD).....	270
A story beyond Cell Cycle and Cell differentiation, retinoblastoma related (rbr-4) has role in male germline development, and abiotic stresses.....	70
A Study on Prevalence of Different Congenital Limb Defects Patients of Haripur District who Visited Rehabilitation Centre.....	100
A study on the farmer's knowledge and intensity of pesticide use in vegetables grown in district Thatta	108
A Sustainable Approach for Producing Green Bioenergy Using Photosynthetic Microbial Fuel Cell.....	1
Adapting Food Routines in the post COVID-19 Era.....	275
AFM based surface analysis of High Hydrostatic Pressure Sensitive and Resistant <i>Pseudomonas aeruginosa</i> strains	194
Agro-morphological Characterization of Tomato (<i>Lycopersicon esculentum</i>) Germplasm under Climatic Conditions of Pothowar.....	30
AI-based Solutions for Sustainable Beekeeping: A Step towards Controlling Colony Collapse Disorder	53
<i>Alpha</i> -Mangostin Mediated Silver Nanoparticles as Antioxidant and Anticancer agent, and Ecofriendly Catalyst for Dyes Degradation.....	178
Amrit Dhara Oil: A Promising Analgesic	139
An innovative strategy in wheat (<i>Triticum aestivum</i> L.) grain yield production through priming of seeds with phyto extract to tolerate heat and drought.....	14
An Intelligent and Secure Transaction Routing Protocol for Distributed Ledger in Internet of Things.....	221
An overview on antimicrobial and antioxidant properties of Propolis	5
Analysis of Inducible Clindamycin genes, Virginiamycin A acetyl transferase Vat and class I integrase, in <i>S. aureus</i> isolated from raw milk samples.....	185
Analysis of Phyto-Constituents and Biological activities of <i>Sapindus Mukorossi</i>	250
Antibacterial Potential of Green AgNPs Synthesized Using <i>Cinnamomum verum</i>	93
Anticorrosive polyaniline synthesized using coconut oil as the dispersion medium.....	69
Antidiabetic Activity of <i>Fraxinus xanthoxylodes</i> Bark Extract in Alloxan induced Diabetic Rats.....	159
Anti-diabetic studies of <i>Taraxacum officinale</i>	197
Antifungal activity of Green synthesized Schiff Base-Polymeric nanoparticles by nanoprecipitation technique; A new Advancement.....	106

Identification of a novel variant in GPR56/ADGRG1 gene through whole exome sequencing in a consanguineous Pakistani family.....	65
Identification of novel inhibitors of non-structural protein for treatment HCV: an in-silico approach.....	131
Identification of Potent Inhibitors Targeting EGFR and HER3 for Effective Treatment of Chemoresistance in Non-Small Cell Lung Cancer.....	248
Immuno-Modulating Potential of Goat Milk	33
Impact of Therapeutic Tea (Indian Rennet Tea) in Lowering Blood Glucose in Patients of Diabetes	105
Impacts of Fibre Consumption on Gut Microbiota in Individuals diagnosed with type 2 Diabetes	235
In vitro and in Vivo characterization of therapeutically effective serine protease inhibitor isolated from <i>Momordica charantia</i> L.	96
In vitro evaluation of Aloe saponaria as a potential feed additive to reduce protozoal count and methanogenesis in ruminants.....	44
In vivo evaluation of different originated corn grains in ruminal fermentation and blood metabolites of Holstein steers fed total mixed ration as a basal diet	43
Incorporating oat flour for formulating functional bakery products to meet the dietary needs of celiac disease patients	150
Incorporation of growth factors and bioactive molecules in 3D printing for enhanced meat tissue engineering.....	17
Incorporation of unripe mango powder (<i>Mangifera Indica</i>) in the preparation of flavored iced tea.....	116
Influence of Preprocessing Methods and Fermentation of Adzuki Beans on Γ -Aminobutyric Acid (Gaba) Accumulation by Lactic Acid Bacteria	234
Inhibition of <i>Aspergillus niger</i> Ochratoxin A Biosynthesis Pathway using CRISPR-Cas Gene Editing Approach.....	61
Injectable Oligomer-Cross-linked Gelatin Hydrogels for Regenerative Applications ...	203
Innovations in Alternative Protein Sources: Meeting the Global Demand for Sustainable Food Systems.....	68
Innovations in Food Biotechnology: From Genetic Engineering to Cultured Meat.....	240
Insects as a solution for Food Security and Hunger	143
Insight into Carbohydrate Metabolism, Protein Quantification in Wheat (<i>Triticum aestivum</i> L.) by the Action of Green synthesized silver nanoparticles (AgNPs) against Heat stress, With respect to Climate change in Pakistan.....	15
Integrated Management of Canola Aphid Using Silicon Dioxide and <i>Chrysoperla carnea</i> under Field Conditions.....	173
Integrated Pan-Omics and Machine Learning Analysis Revealed Multi-Stress Responsive Roles of the CC-NBS-LRR (CNL) Gene Family Members in Three Mango Cultivars...35	35
Interpreting Machine Learning Models Local and Global Predictions by Leveraging Explainable Artificial Intelligence	40
Investigating the efficacy of polylactic acid based active packaging incorporating eugenol and lycopene for tomato preservation	18
Investigating the therapeutic properties and environmental sustainability of date seed herbal tea as promising caffeine-free alternative with nutritional and medicinal value .	110
Investigation of Acrylamide in Fast Food Products and its Health Risk Assessment	136
Investigation of Optical, Morphological, and Structural Characteristics of Cuo-Go Nanocomposites Synthesized by Chemical Solution	278
Investigation of the Optoelectronic Properties of Synthesized Monocarbonyl Aryledines	200



International
Conference
 on Food & Applied Sciences (ICFAS-2023) Dir-Kumrat
 03-05 August 2023

Certificate of Participation


This Certificate is Proudly Presented to

Mr./Ms. Muhammad Karim For. Online Presentation
(Paper)


Organized by
 Evolution (Pakistan) & Shaheed Benazir Bhutto University
 Sheringal (Dir) KPK Pakistan

Event Partners & Collaborators




 Patron in Chief
PROF. DR. MUHAMMAD SHAHAB
 Vice Chancellor SBBU Sheringal
 Pakistan


 Principal Organizer
KHURRAM JOBAL
 Managing Director Evolution Pakistan


 Principal Organizer
Dr. Abdul Khaliq Jan
 Pro Vice Chancellor, SBBU Sheringal
 Pakistan



KOHAT UNIVERSITY OF SCIENCE & TECHNOLOGY

Kohat 26000, Khyber Pakhtunkhwa, Pakistan Ph# 0922-554563-554565, Fax# 554556

CERTIFICATE OF THESIS COMPLETION

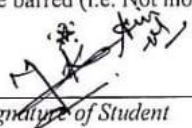
To be filed by student

Name of Student	Muhammad Karim
Registration Number	(CS320211002)
Degree Title	MS
Title of Thesis	INTERPRETING MACHINE LEARNING MODELS LOCAL AND GLOBAL PREDICTIONS BY LEVERAGING EXPLAINABLE ARTIFICIAL INTELLIGENCE

Declaration of Ownership of Work

I confirm that

- The work presented in the Submission is my own.
- Objectives of the research are addressed.
- Format and all references are cited according to the accepted Kohat University of Science and Technology conventions.
- I am not time barred (i.e. Not more than 4 years as a restriction by HEC).



Signature of Student



Date



To be filed by supervisor(s)

I as supervisor of the student hereby certify that:

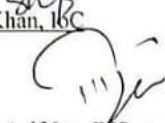
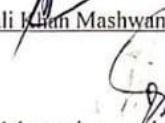

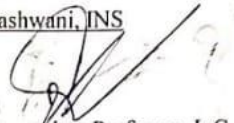
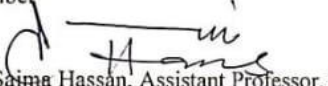
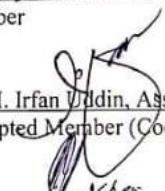

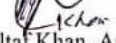
- The above-mentioned student is a registered Student of Kohat of University of Science and Technology.
- He/she has completed his/her thesis.
- The thesis has been reviewed thoroughly and have made amendments where required.
- All the objectives of the research are achieved.
- The work has been checked for plagiarism and proper use of citation and referencing.
- The student is not time-barred.
- The research work has been completed to my satisfaction and is recommended for evaluation/examination*.

* Supervisor's Comments (In case any supervisor is not satisfied):

1.
2.
3.
4.
5.
6.

Supervisor	Name	Signature	Date
Supervisor I	Dr Irfan uddin		24/8/2023
Supervisor II	Dr. Muhammad Adnan		24/8/2023
Supervisor III (If any)			

Name & Signature of Departmental Graduate Committee:

1. Prof. Dr. Shafiullah Khan, IoC
Convener/Director 
2. Prof. Dr. Wali Khan Mashwani, INS
Member 
3. Prof. Dr. Muhammad Asif Jan, INS
Member 
4. Dr. Amjad Mahmood, Associate Professor, IoC
Member 
5. Dr. Saima Hassan, Assistant Professor, IoC
Member 
6. Dr. M. Irfan Uddin, Assistant Professor, IoC
Co-Opted Member (Coordinator MS) 
7. Dr. Muhammad Roman, Lecturer, IoC
Member 
8. Dr. M. Altaf Khan, Assistant Professor, IoC
Secretary DGC 

Date: 24/8/2023.

Reg-# (CS3202011002) 17-Aug-2023

KOHAT UNIVERSITY OF SCIENCE & TECHNOLOGY
KOHAT



CLEARANCE CERTIFICATE

Purpose of Clearance:	<input type="checkbox"/> Degree	<input type="checkbox"/> Provisional	<input type="checkbox"/> Transcript	<input type="checkbox"/> Security University Hostel	<input type="checkbox"/> Admission Cancellation	<input checked="" type="checkbox"/> Thesis Submission
-----------------------	---------------------------------	--------------------------------------	-------------------------------------	---	---	---

Name of Student: Muhammad Karim

Father's Name: Lal Muhammad

Discipline: Ms (CS) Semester:

Hostel Name (if Any): Student Fee Slip ID No:

Office Use Only

Please report regarding his/her outstanding books/ dues/ other thing (if any) of the above mentioned student.

<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Boarder	Dayscholar	Hostel Name

Hostel Manager: Provost Signature / Stamp:

- Head of Department:
- Director Academics / Admission Section:
- Librarian:
- ENSC:
- University Cafeteria:
- CDC:
- Chief Proctor:

7. Accounts Section:

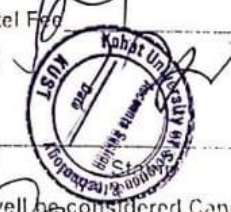
<input checked="" type="checkbox"/>	<input type="checkbox"/>	i. University Fee
Clear	Outstanding	ii. Hostel Fee


Accountant Signature:

* Please Collect your Cheque (if any) within 03 Months. Other wise it will be considered Cancelled (Note) Every Student has to present his / her 1st & last Admission Fee Slip, Hostel Fee Slip (Photo Copy will not be acceptable for University / Hostel Security)

Handwritten signature and notes at the bottom of the page.

DIRECTOR
Institute of Computing
& Technology
Kohat University of Science & Technology



From: Dr. Fasee Ullah , PhD, PostDoc, Associate Professor, Department of CS/IT fasee.csit@suit.edu.pk 
Subject: Re: Consent for MS Thesis Evaluation
Date: 27 September 2023 at 21:51
To: Irfan Uddin irfanuddin@kust.edu.pk



Walikumoasalam wrbt,

Dear Dr sb,

Thank you for your email for asking consent about MS Thesis evaluation. I am happily accept to evalaute MS thesis if I get selected. Please see my attached cv for your reference. Thank you

On Wed, 27 Sep 2023, 9:41 pm Irfan Uddin, <irfanuddin@kust.edu.pk> wrote:

Dear Dr. Fasee Ullah, Dr. Rafiullah Khan and Dr. Izaz ur Rahman
Asalam-a-alaikum!

We would like to propose your name to evaluate the thesis of my MSCS student. As per our university rule, we propose three names, and one name is selected by the competent authority. But they need your consent before we forward the case to the Directorate of Advanced Studies.

The details of the thesis are given below:

Thesis Title: INTERPRETING MACHINE LEARNING MODELS LOCAL AND GLOBAL PREDICTIONS BY LEVERAGING EXPLAINABLE ARTIFICIAL INTELLIGENCE

Student Name: MUHAMMAD KARIM

Supervisor I: Dr. M. Irfan Uddin

Supervisor II: Dr. Muhammad Adnan

If you agree to evaluate the above thesis, please reply to this email from your official email. Please also attach your 2-3 page CV in your response.

Thanks and Regards.

Dr. M. Irfan Uddin

Assistant Professor/Coordinator MS


Institute of Computing

Kohat University of Science and Technology

Kohat, Pakistan.



Dr. Fasee
Resume.pdf

From: Mohib Ullah mohibullah@aup.edu.pk 
Subject: Re: Consent for MS thesis evaluation
Date: 29 September 2023 at 12:07
To: Irfan Uddin irfanuddin@kust.edu.pk



I am willing to evaluate the thesis. Just let me know when I am supposed to assess it. I am also attaching my CV, as requested in the email

Thanks

Dr. Mohib Ullah
Senior Lecturer ICS/IT
The University of Agriculture, Peshawar

On Thu, Sep 28, 2023 at 2:21 PM Irfan Uddin <irfanuddin@kust.edu.pk> wrote:

Dear Dr. Mohib Ullah
Asalam-a-alaikum!

We would like to propose your name to evaluate the thesis of my MScS student. As per our university rule, we propose three names, and one name is selected by the competent authority. But they need your consent before we forward the case to the Directorate of Advanced Studies.

The details of the thesis are given below:

Thesis Title: INTERPRETING MACHINE LEARNING MODELS LOCAL AND GLOBAL PREDICTIONS BY LEVERAGING EXPLAINABLE ARTIFICIAL INTELLIGENCE

Student Name: MUHAMMAD KARIM

Supervisor I: Dr. M. Irfan Uddin

Supervisor II: Dr. Muhammad Adnan

If you agree to evaluate the above thesis, please reply to this email from your official email. Please also attach your 2-3 page CV in your response.

Thanks and Regards.

Irfan Uddin



Dr
Mohib_CV.doc

From: Dr. Izaz Ur Rahman izaz@awkum.edu.pk  

Subject: Re: Consent for MS Thesis Evaluation

Date: 28 September 2023 at 06:16

To: Irfan Uddin irfanuddin@kust.edu.pk

Cc: fasee.csit@suit.edu.pk, rafiyz@aup.edu.pk, Muhammad Adnan adnan@kust.edu.pk

IR

Dear Dr. Irfan,

Thank you for your email. Yes, I agree. Please suggest my name for the evaluation of the mentioned thesis.

Regards

Izaz

On Wed, 27 Sep 2023, 21:41 Irfan Uddin, <irfanuddin@kust.edu.pk> wrote:

Dear Dr. Fasee Ullah, Dr. Rafiullah Khan and Dr. Izaz ur Rahman
Asalam-a-alaikum!

We would like to propose your name to evaluate the thesis of my MSCS student. As per our university rule, we propose three names, and one name is selected by the competent authority. But they need your consent before we forward the case to the Directorate of Advanced Studies.

The details of the thesis are given below:

Thesis Title: INTERPRETING MACHINE LEARNING MODELS LOCAL AND GLOBAL PREDICTIONS BY LEVERAGING EXPLAINABLE ARTIFICIAL INTELLIGENCE

Student Name: MUHAMMAD KARIM

Supervisor I: Dr. M. Irfan Uddin

Supervisor II: Dr. Muhammad Adnan

If you agree to evaluate the above thesis, please reply to this email from your official email. Please also attach your 2-3 page CV in your response.

Thanks and Regards.

Dr. M. Irfan Uddin

Assistant Professor/Coordinator MS

Institute of Computing

Kohat University of Science and Technology

Kohat, Pakistan.



Curriculum
Vitae_Izaz.docx

46 KB

Fasee Ullah

PostDoctoral Fellowship & PhD (Computer Science)

HEC Approved PhD Supervisor

Double Gold Medalists (Chancellor award & Best Student award)

Email: faseekhan@gmail.com

Contact: +92- 321-9128629

Google Scholar: https://scholar.google.com.pk/citations?hl=en&user=BM4pmLIAAAAJ&view_op=list_works&authuser=1

CAREER GOAL

An experienced Computer Science/Information technology lecturer/researcher with over 10 years of experience at leading academic institutes in Pakistan, Saudi Arabia and Malaysia. Teaching the students from diverse social and cultural backgrounds with excellent administrative, verbal communication and effective teaching methods in field of computer science and communication technology.

RESEARCH INTEREST

Wireless Body Area Network (Health informatics), Cloud security, Hash Security, Internet of Things, Deep learning and Machine Learning, Big Data and analytics, Smart Homes, Wireless Sensor Networks, Peer-to-Peer Networks, Network Security, Ontology

ACADEMIC QUALIFICATIONS

- 2019– 2021** **PostDoctoral Fellowship**
University of Macau, Macau
Faculty of Science and Technology,
Department of Computer and Information Sciences.
- 2014 – 2017** **PhD (Computer Science)**
Universiti Teknologi Malaysia, Malaysia
Major: Wireless Communication
Thesis Title: “ADAPTIVE TRAFFIC PRIORITY MEDIUM ACCESS CONTROL
PROTOCOL FOR WIRELESS BODY AREA NETWORK”
- 2007 – 2009** **MS (Computer Science)**
SZABIST University, Islamabad, Pakistan
Major: Wireless Communication
Research Title: “SECURITY PROTOCOLS FOR WIRELESS SENSOR NETWORK”
- 2003 – 2006** Bachelor in Computer Science (4 years program)
Deptt. Of Computer Sciences, Islamia College University
Peshawar, Pakistan
Degree awarding institution: **University of Peshawar, Pakistan**

ACADEMIC AWARDS

1. Gold Medalist of Chancellor award, UTM, Malaysia, 2017
2. Best Student Award, UTM, Malaysia, 2017
3. Best Presenter Award at PARS, UTM Malaysia, 2015

PROFESSIONAL EXPERIENCE

Oct 1, 2021 - Onwards **Associate Professor**
Department of Computer science & IT, Sarhad University of

- May 19, 2021 – Sep 30, 2021**
(Re-joined After PostDoc completion) **Science and Technology, Peshawar, Pakistan**
Assistant Professor
Department of Computer science & IT, Sarhad University of Science and Technology, Peshawar, Pakistan
- 3rd May 2019 – 1st May, 2021** **Post-Doctoral Fellowship, Department of Computer & Technology, Faculty of Science and Technology, University of Macau, Macau SAR.**
- Sept 2017 – 2nd May, 2019** **Assistant Professor & Postgraduate Coordinator, Department of Computer science & IT, Sarhad University of Science and Technology, Peshawar, Pakistan**
- 2015 – June 2017** **Research Assistant (Health Monitoring using BioMedical Sensors Project)**
- Pervasive Computing Research
Group (PCRG) Faculty of Computing
Universiti Teknologi Malaysia, Malaysia
- Research on new integrated wireless technologies
 - Publish research articles
 - Arrange workshops and conferences
 - Assist new research students
- Oct 2013 – Oct 2014** **Lecturer Department of Computer Science, Abasyn university, Pakistan**
- To take Lectures, Tutorial and labs with postgraduate level courses i.e. Data Structure & Algorithms, Operating System, Advance Operating System, Topics in Computer Networks and Network Security & Cryptography.
 - Deal with daily departmental matters such as class allocation, time tables; evaluate teacher performances, conduct weekly and monthly meetings with staff members, hiring new staff members, recommending and implementing changes to meet departmental goals and objectives.
 - Also supervised MCS and MS (CS) student final year projects. Also conduct fortnightly seminars on proposal/thesis writing, beneficial for all university students.
- April 2012 – Sept 2013** **Lecturer/Research Assistant at Science and Technology Unit (STU), Umm Al Quran University, Makkah, Kingdom of Saudi Arabia.**
- Worked as a team leader in the research project titled “iBOS: Interconnected BOdy Sensor Networks for Emergency Response Support”.
- Feb 2010 – April 2012** **Lecturer in Computer Science Department – City University of Science & Technology, Peshawar, Pakistan**
- My responsibilities to take lectures/labs look after department matters and I was also a coordinator of computer science department. As a part of my job I evaluated teacher performances, conducted weekly and monthly meetings with staff members, member of a team to manage university network. Observe classes not only to evaluate teacher performance but also to check if students were satisfied with the teaching. I offered my services for supervision of master level projects as well also MS level research thesis. I was taught to the BCS, MCS and MS level students with different courses: **Computer Architecture, Operating Systems, Artificial Intelligence, Computer Networks, Data and Network**

Security, Software engineering, Databases, Web Technologies, C/C++ programming and Theory of Automata.

Aug 2009 to May 2010 Lecturer in Computer Science -Govt. College Peshawar

The responsibility of my job was to teach to students various subjects in computer science field with practical works of MS office and basic programming languages like C/C++.

June 2005 to Dec 2006 Computer Instructor in Professional Software Institute - Peshawar

My responsibility was managing networks, troubleshooting, configured routers/switches, hardware maintenance, and backups and teaching to students.

PUBLICATIONS

JOURNAL ARTICLES

1. Muhammad Janas Khan, Fasee Ullah *, Muhammad Imran, Jahangir Khan, Arshad Khan, Ahmed S AlGhamdi, Sultan S. Alshamrani **“Identifying Challenges in Adopting Sustainable Public Cloud Computing for Organizations”** Accepted on 1st August, 2022, Journal of Sustainability, Publishers: MDPI. In production phase. (IF=3.889)
2. Ishtiaq Wahid, Sadaf Tanvir, Masood Ahmad, Fasee Ullah *, et.al, **“Vehicular Ad hoc networks Routing Strategies for Intelligent Transportation System”**, accepted on 21st July, 2022, Journal of Electronics, Publisher: MDPI, Vol 11, issue. 2298, 2022. (IF =2.690)
3. Fasee Ullah, Chi-Man PUN, **“Enabling Parity Authenticator based Public Auditing with Protection of a Valid User Revocation in Cloud”**, IEEE Transactions on Computational Social Systems, April, 2022, In early Access phase. (Impact factor: 4.747)
4. Muhammad Babar, Muhammad Usman Tariq, Mohammad Dahman Alshehri, Fasee Ullah, M. Irfan Uddin, **“Smart Teledentistry Healthcare Architecture for Medical Big Data Analysis using IoT-enabled Environment”**, Sustainable Computing: Informatics and Systems, accepted on 5th March, 2022, vol 35, 2022. (IF=4.028)
5. Tanveer Ahmad, Dongdong Zhangb, Ahmed S. A, Fasee Ullah, Sultan S. A, **“Design parametric analysis of low-energy residential buildings on the way to a defined cost-optimal capacity point”**, Alexandria Engineering Journal, vol. 61, issue 10, Pages 8297-8313, 2022 . (IF= 3.732)
6. Shahzad Hameed, Qurratul-Ain Minhas, Sheeraz Ahmad, Fasee Ullah*, Arshad Khan, Atif Khan, Irfan Uddin, Qiaozhi Hua, **“Connectivity of Drones in FANETs using Biological Inspired Dragonfly Algorithm (DA) through Machine Learning”**, Journal of Wireless Communications and Mobile Computing, vol 2022, page.1-12, 2022. (IF=2.336)
7. Faizan Ullah, Abdu Salam, Muhammad Abrar, Masood Ahmad, Fasee Ullah*, Atif Khan, Abdullah Alharbi6, Wael Alosaimi **“Machine Health Surveillance System by Using Deep Learning Sparse Autoencoder”**, Journal of Soft Computing, vol. 2022, Jan 2022. (IF=3.643)
8. Tanveer Ahmad, Hongyu Zhu, Dongdong Zhang, Rasikh Tariq, A. Bassam, Fasee Ullah , et.al, **“Energetics**

Systems and Artificial Intelligence: Applications of Industry 4.0, Journal of Energy Reports, 17th December, vol.8, 2022, Pages 334-361. (IF = 6.870)
<https://www.sciencedirect.com/science/article/pii/S2352484721014037>

9. Muhammad Babar, Mohammad Dahman Alshehri, Muhammad Usman Tariq, Fasee Ullah, **“IoT-enabled Big Data Analytics Architecture for Multimedia Data Communications”**, Journal of Wireless Communications and Mobile Computing, 17th December, vol.2021, 2021. (IF = 2.336)
10. Sabir Awan, Sheeraz Ahmed, Fasee Ullah, Asif Nawaz, et.al; **“IoT with BlockChain: A Futuristic Approach in Agriculture and Food Supply Chain”**, Journal of Wireless Communications and Mobile Computing, 23 June, vol. 2021, 2021, pages 1-14. (IF=2.336)
11. Ishtiaq Wahid, Fasee Ullah, Masood Ahmad, et.al. **“Quality of Service Aware Cluster Routing in Vehicular Ad Hoc Networks”**, Journal of Computers, Materials and Continua, Vol.67, No.3, 2021, pp.3949-3965. (IF=4.89)
12. Masood Ahmad, Abdul Hameed, Fasee Ullah*, et.al, **“Adaptation of Vehicular Ad hoc Network Clustering Protocol for Smart Transportation”**, Journal of Computers, Materials and Continua, Vol.67, No.2, 2021, pp.1353-1368. (IF=4.89)
13. Fasee Ullah, Izhar Ullah, Atif Khan, et.al, **“Enabling Clustering for Privacy-Aware Data Dissemination based on Medical Healthcare-IoTs (MH-IoTs) for Wireless Body Area Network”**, Journal of Healthcare Engineering, vol. 2020, November, 2020. (IF=1.803)
14. Masood Ahmad, Fasee Ullah*, et.al, **“A Bio-inspired Routing Optimization in UAV-enabled Internet of Everything”**, Journal of Computers, Materials & Continua. Vol.67, No.1, 2021, pp.321-336. (IF=4.89)
15. Masood Ahmad, Abdul Hameed, Fasee Ullah*, et.al, **“Cluster optimization in Mobile Adhoc Networks based on memetic Algorithm: memeHoc”**, Journal of Complexity, vol.2020, 30th July, 2020. (IF= 2.462)
16. Atif Khan, Qaiser Shah, M. Irfan Uddin, Fasee Ullah*, Abdullah Alharbi, Hashem Alyami, Muhammad Adnan Gul, **“Sentence Embedding based Semantic Clustering Approach for Discussion Thread Summarization”**, Journal of Complexity, Hindawi, vol.2020, 30th July, 2020. (IF= 2.462)
17. Hamid Asmat, Fasee Ullah*, Mahdi Zareei, Atif Khan and Ehab Mahmoud Mohamed, **“Energy-efficient Centrally Controlled Caching contents for Information-Centric Internet of Things”**, pp. 126358 – 126369, Vol.8, IEEE ACCESS, 21st July, 2020. (IF=3.745)
18. Hamid asmat, Ikram Ud Din, Fasee Ullah, Muhammad Talha, Murad Khan, Mohsen Guizani , **“ELC: Edge Linked Caching for Content Updating in Information-Centric Internet of Things”**, Journal of Computer Communications, Elsevier, Vol. 156, April 2020, pp. 174-182. (IF=2.766)
19. Fasee Ullah, Zaka Ullah, & et.al., **“Traffic priority based delay-aware and energy efficient path allocation routing protocol for wireless body area network”**, Journal of Ambient Intelligence and Humanized Computing, vol. 10, pages3775–3794, June 2019. (IF=1.423)
20. Masood Ahmad, Ataul Aziz Ikram, Ishtiaq Wahid, Fasee Ullah, Awais Ahmad, Fakhri Alam, **“Optimized clustering in vehicular ad hoc networks based on Honey bee and Genetic Algorithm for Internet of Things”**, Journal of Peer-to-Peer Networking and Applications, January 2020, vol. 13, pages 532–547. (IF=1.514)
21. Ishtiaq Wahid, Ata Ul Aziz Ikram, Masood Ahmad and Fasee Ullah, **“An improved supervisory protocol for automatic selection of routing protocols in environment-aware vehicular ad hoc networks”**, International Journal of Distributed Sensor Networks, Vol 14(11), PP. 1-15, 29 November, 2018. (IF=1.787)
22. Masood Ahmad, Abdul Hameed, Fasee Ullah, Ishtiaq Wahid, Saeed Ur Rehman, Hasan Ali Khattak, **“A bio-inspired clustering in mobile adhoc networks for internet of things based on honey bee and**

- genetic algorithm**". Journal of Ambient Intelligence and Humanized Computing, 11, pages4347–4361 (2020). (IF= 6.163)
23. Fasee Ullah, Abdul Hanan Abdullah, Omprakash Kaiwartya, Yue Cao, "**TraPy-MAC: Traffic Priority Aware Medium Access Control Protocol for Wireless Body Area Network**", 41(93), PP 1-18, 2017, Journal of medical systems, 2017. (IF=2.456)
 24. Fasee Ullah, Abdul Hanan Abdullah, Omprakash Kaiwartya, Jaime Lloret, Marina Md Arshad, "**EETP-MAC: energy efficient traffic prioritization for medium access control in wireless body area networks**", Telecommunication Systems, PP 1-23, 2,2017. (IF=1.542)
 25. Fasee Ullah, Abdul Hanan Abdullah, Omprakash Kaiwartya, Sushil Kumar, Marina Md Arshad, "**Medium Access control in Wireless Body Area Network: Super-frame Structure, Multiple Access Technique, Taxonomy and Future Issues**", Journal of Human-Centric Computing and Information Science, Springer Publisher, Dec 1, 2017. (IF=1.967)
 26. Ullah, Fasee; Abdullah, Abdul Hanan; Abdul-Salaam, Gaddafi; Md Arshad, Marina; Masud, Farhan, "**CDASA-CSMA/CA: Contention Differentiated Adaptive Slot Allocation CSMA-CA for Heterogeneous Data in Wireless Body Area Networks**", KSII Transactions on Internet and Information Systems, 11(12):5835-5854, Dec 2017. (IF=0.452)
 27. Fasee Ullah, Abdul Hanan Abdullah, Omprakash Kaiwartya, Marina Md Arshad, "**Traffic Priority-Aware Adaptive Slot Allocation for Medium Access Control Protocol in Wireless Body Area Network**", Journal of Computers (MDPI), 6(1), PP 1-26,2017. (Indexed by ESCI).
 28. Farhan Masud, Abdul Hanan Abdullah, Gaddafi Abdul-Salaam, Fasee Ullah, "**Traffic Adaptive MAC Protocols in Wireless Body Area Networks**", Journal of Wireless Communications and Mobile Computing, Volume 2017 (2017), PP 1-14. (IF=1.899)
 29. Khalid Haseeb, Kamalrulnizam Abu Bakar, Abdul Hanan Abdullah, Adnan Ahmed, Tasneem Darwish, Fasee Ullah, "**A dynamic Energy-aware fault tolerant routing protocol for wireless sensor networks**", Journal Computers & Electrical Engineering, Volume 56, November 2016, Pages 557-575. (IF=0.8)
 30. Kashif Naseer Qureshi, Abdul Hanan Abdullah, Omprakash Kaiwartya, Fasee Ullah, Saleem Iqbal, Ayman Altameem, "**Weighted link quality and forward progress coupled with modified RTS/CTS for beaconless packet forwarding protocol (B-PFP) in VANETs**", Telecommunication Systems, 2016: pp. 145–160. (IF=0.822).
 31. KN Qureshi, AH Abdullah, RW Anwar, F Ullah, "**A Systematic Review on Routing Protocols of Vehicular Ad Hoc Networks**", in KSII The 7th International Conference on Internet (ICONI) 2015. 2015. KOREAN SOCIETY FOR INTERNET INFORMATION. (IF=0.561)

Scopus

32. Fasee Ullah, Abdul Hanan Abdullah, Marina Md Arshad, Kashif Naseer Qureshi, "**Energy Efficient and Delay-Aware Adaptive Slot Allocation Medium Access Control Protocol for Wireless Body Area Network**", IEEE ICoICT conference 2017, Melaka, 2017. (Indexed by Scopus -IEEE)
33. Fasee Ullah, Abdul Hanan Abdullah, Muhammad Qasim Jan, Kashif Naseer Qureshi, "**Patient data prioritization in the cross-layer designs of wireless body area network**". Journal of Computer Networks and Communications, 2015, 2015.
34. Fasee Ullah, Abdul Hanan Abdullah, Muhammad Zubair, Waqar Rauf, Kashif Naseer Qureshi, Junaid, "**THE ROLE OF CROSS-LAYERED DESIGNS IN WIRELESS BODY AREA NETWORK**", 78(4), PP 105-113, Jurnal Teknologi, 2016.
35. Fasee Ullah, Abdul Hanan Abdullah, Omprakash Kaiwartya, Shiv Prakash, "**Patient Data Dissemination in Wireless Body Area Network: A Qualitative Analysis**", ICTCS '16 Proceedings of the Second

International Conference on Information and Communication Technology for Competitive Strategies, ACM New York, PP 1-5, March 04-05, 2016.

36. **Fasee Ullah**, Abdul Hanan Abdullah, Marina Md Arshad, Ahmed Aliyu, “**Emergency Data Handling Medium Access Control Protocol for Wireless Body Area Network**”, The 2017 6 ICT International Student Project Conference (ICT-ISPC 2017), IEEE Publication, 2017, pp 1-5..
37. **Fasee Ullah**, Khelil, A. ; Sheikh, A.A. ; Felemban, E, et.al. “**Towards Automated Self-tagging in Emergency Health Cases**”, published and presented in the IEEE HealthCom Conference at Portugal, Oct 2013.
38. **Fasee Ullah** , Muhammad Arshad , Muhammad Saqib, Muhammad Bakhsh, and Waqas Tariq “**Comparative Study of Amazon.com, Wikipedia.com and SZABIST-isb.edu.pk in the context of the Web 2.0 Attributes and Services**”, Published in the City University Journal, Vol 3 No1, July 2012.
39. **Fasee Ullah**, Waqas Tariq, Dr. Muhammad Arshad, Muhammad Saqib, Noor Gul, “**Analysis of Security Techniques for Detecting Suspicious Activities and Intrusion Detection Network Traffic**”, published in IJCSI, 30th March, 2012.
40. **Fasee Ullah and Waqas Tariq**, “**Operating System Based Analysis of Security Tools For Detecting Suspicious Events in Network Traffic**”, published in vol.8 issue 6 No 2 in International Journal of Computer Science Issues - Nov 2011.
41. **Fasee Ullah**, Muhammad Amin and Hamid ul Ghaffran, “**Simulating AODV and DSDV for Adynamic Wireless Sensor Networks**”, published in International Journal of Computer Science and Network Security. South Korea, August 25, 2010.
42. **Fasee Ullah**, Ahmad, M. ; Habib, M. ; Muhammad, J. “**Analysis of Security Protocols for Wireless Sensor Networks**”, published in the IEEE Xplore, and indexed by the Ei Compendex, Thomson ISI (ISTP) and INSPEC, Shanghai, China, March 11 – 13, 2011.
43. Muhammad Anwar, Abdul Hanan Abdullah, Rd. Rohmat Saedudin, Farhan Masud, Fasee Ullah, “**CAMP: Congestion Avoidance and Mitigation Protocol for Wireless Body Area Networks**”, International Journal of Integrated Engineering, Vol. 10 No. 6 (2018) p. 59-65. August 2018.
44. M. Anwar, A. H. Abdullah, R. A. Butt, M. W. Ashraf , K. N. Qureshi, F. Ullah, “**Securing Data Communication in Wireless Body Area Networks Using Digital Signatures**”, *Technical Journal, University of Engineering and Technology (UET) Taxila, Pakistan Vol. 23 No. 2-2018.*
45. Ahmed Aliyu, Abdul Hanan Abdullah, Omprakash Kaiwartya, Fasee Ullah and Usman Mohammed Joda, “**Multi-path Video Streaming in Vehicular Communication: Approaches and Challenges**”, The 2017 6 ICT International Student Project Conference (ICT-ISPC 2017), IEEE Publication, 2017, pp 1-5.
46. Khalid Haseeb, Kamalrulnizam Abu Bakar, Abdul Hanan Abdullah, Tasneem Darwish, Fasee Ullah, Adnan Ahmed, “**Improved Energy Aware Cluster based Data Routing Scheme for WSN**”, 14(2), PP 531-537, 2016, journal of TELKOMNIKA
47. **Qureshi, K.N.**, A.H. **Abdullah**, and F. Ullah, *Beaconless Packet Forwarding Approach for Vehicular Urban Environment*. Bulletin of Electrical Engineering and Informatics, 2016. 5(2): p. 253-262.
48. **Qureshi, K.N.**, A.H. **Abdullah**, and F. Ullah, *VEHICULAR AD HOC NETWORKS ROUTING PROTOCOLS: SURVEY*. Sci.Int.(Lahore), 2015.
49. Faisal Javed, Muhammad Amin and **Fasee Ullah**, “**Efficient Selection of Multi Criteria Formal Systems through Analytical Hierarchy Process**”, published in City University Journal in Vol2 issue 1 in Feb 2012.
50. Mehar Ullah, **Fasee Ullah**, Muhammad Saeed Shehzad , “**Enhancement of stakeholders participations in Water fall Process Model (Step towards reducing the defects in software product)**”, published in **International Journal of Computer Science and Information Security (IJCSIS)**, Vol. 9, No. 5, May 2011.USA

51. Masood Ahmad, Masood Habib, Muhammad Zahir Shah, **Fasee Ullah**, Shah Hussain, “**Energy Aware Uniform Cluster-Head Distribution Technique for Hierarchical Wireless Sensor Networks**”, published in International Journal of Computer Science and Network Security. South Korea, October 2010.

CONFERENCE ARTICLES

52. Fasee Ullah, Imran Khan, “**BNmPS: Biomolecular Nanomachine Protocol Stack for Human Disease Diagnoses: A New Paradigm**”, International Conference on Computational and Social Sciences, Abdul Wali Khan University, Mardan, Pakistan. August 2014.
53. Fasee Ullah, Imran Khan, “**Using Ontologies for the Emergency Response Support: A Survey**”, Abdul Wali Khan University, Mardan, Pakistan. International Conference on Computational and Social Sciences, January-February, 2015.
54. **Fasee Ullah**, Tahir Mehmood, Masood Habib, Muhammad Ibrahim, “**SPINS: Security Protocols for Sensor Networks**”, published in the proceeding of 2009 International Conference on Machine Learning and Computing (ICMLC 2009), Perth, Australia, July 10-12, 2009.
55. Muhammad Ibrahim, Tahir Mehmood, **Fasee Ullah**, Masood Habib “**QoS Providence and Management in WiMAX using PMP mod**”, published in the proceeding of 2009 International Conference on Machine Learning and Computing (ICMLC 2009), Perth, Australia, July 10-12, 2009.
56. Muhammad Ibrahim, Tahir Mehmood, **Fasee Ullah**, “**QoS Providence and Management in Mobile Ad-hoc Networks**”, published in the proceeding of 2009 International Conference on Computer Engineering and Applications (ICCEA 2009), Manila Philippine, Singapore, June 6-8, 2009.
57. Masood Habib, Mehmood, T. ; **Ullah, F.** ; Ibrahim, M. “**Performance of WiMAX Security Algorithm (The Comparative study of RSA Encryption Algorithm with ECC Encryption Algorithm)**”, published in 2009 International Conference on Distributed Computing System (ICDCS 2009), and hold in conjunction with ICCTD 2009 (published into the ICCTD 2009 proceedings by IEEE Computer Society CPS), the conference venue is Kota Kinabalu, Malaysia during Nov. 13-15, 2009.
58. Muhammad Saqib, Muhammad Arif, Nafees ur Rehman, Dr. Muhammad Arshad, Fasee Ullah, “Enterprise Resource Planning- Critical Failure Factors (CFFs) and its Remedies towards Effective & Efficient implementation of an Enterprise Resource Planning”, in *City University Research Journal (CURJ), Pakistan*, Volume 3(1)
59. Muhammad Arshad, Muhammad Bakhsh, Muhammad Saqib, Fasee Ullah, “Visualizing the Knowledge Domain: A Review”, in *City University Research Journal (CURJ), Pakistan*

BOOK CHAPTER

1. ULLAH, FASEE, CHI-MAN PUN, “**The Role of Internet of Things for Adaptive Traffic Prioritization in Wireless Body Area Networks**”, **HEALTHCARE PARADIGMS IN THE INTERNET OF THINGS ECOSYSTEM**. PAGES 1-320, PAPERBACK ISBN: 9780128196649, **Published Date:** 09 Nov. 2020, ELSEVIER PUBLISHER.
2. ULLAH, FASEE, ET AL. "FUTURE OF BIG DATA AND DEEP LEARNING FOR WIRELESS BODY AREA NETWORKS." **DEEP LEARNING: CONVERGENCE TO BIG DATA ANALYTICS**. SPRINGER, SINGAPORE, 2019. 53-77.

INTELLECTUAL PROPERTIES

Patent

1. **Fasee Ullah**, Abdul Hanan Abdullah, “*TraPy-MAC: Traffic Priority-Aware Slot Allocation Medium Access Control Protocol*”, **Patent No: IP/PT/2016/1056**, Innovative and Commercialization Unit Universiti Teknologi Malaysia, (ICC-UTM), 2017, **Approved**.

Copyright

1. **Fasee Ullah**, Abdul Hanan Abdullah, “*CDASA-CSMA/CA: CONTENTION DIFFERENTIATED ADAPTIVE SLOT ALLOCATION CSMA/CA FOR HETEROGENEOUS NATURE OF PATIENTS DATA IN MEDICAL BODY AREA NETWORK*,” **Copyright No: UTM.J.01.14/27.13/1JLD110(6)**, Innovative and Commercialization Unit Universiti Teknologi Malaysia, (ICC-UTM), 2016, **Approved**.
2. **Fasee Ullah**, Abdul Hanan Abdullah, “*TRAPY-MAC: THRESHOLD VALUES CRITICALITY BASED PRIORITY-AWARE SLOT ALLOATION MEDIUM ACCESS CONTORL PROTOCOL IN WIRELESS BODY AREA NETWORK*”, **Copyright No: UTM.J.01.14/27.13/1JLD110(45)**, Innovative and Commercialization Unit Universiti Teknologi Malaysia, (ICC-UTM), 2016, **Approved**.
3. **Fasee Ullah**, Abdul Hanan Abdullah, “*TryACA-MAC: Traffic Delay-Aware Criticalities based Slots Allocation Medium Access Control Protocol in Wireless Body Area Network*”, **Copyright No: IP/CR/2017/0010**, Innovative and Commercialization Unit Universiti Teknologi Malaysia, (ICC-UTM), 2017. **Approved**.
4. **Fasee Ullah**, Abdul Hanan Abdullah, “*CRCAP-CSMA/CA: Contention Reduction-based CAP’s Slot Allocation CSMA-CA to Heterogeneous Nature of a Patient’s data in Wireless Body Area Network*”, **Copyright No: IP/CR/2017/0013**, Innovative and Commercialization Unit Universiti Teknologi Malaysia, (ICC-UTM), 2017. **Approved**.
5. **Fasee Ullah**, Abdul Hanan Abdullah, “*DAASL-MAC: Delay-Aware Adaptive Slots Allocation Medium Access Control Protocol based on the Criticalities of Low Threshold Values in Wireless Body Area Network*”, **Copyright No: IP/CR/2017/0015**, Innovative and Commercialization Unit Universiti Teknologi Malaysia, (ICC-UTM), 2017. **Approved**.

PROJECTS

PROJECTS COMPLETED

A. IGNITE-NATIONAL TECHNOLOGY FUND ISLAMABAD- PAKISTAN UNDER THE NATIONAL GRASSROOTS ICT RESEARCH INTIATIVE (NGIRI)-2019.

Title of Project: **A Smart Walking Stick for Visually Impaired and Deaf Person**

This project funding is supported by IGNITE-NATIONAL TECHNOLOGY FUND ISLAMABAD-PAKISTAN UNDER THE NATIONAL GRASSROOTS ICT RESEARCH INTIATIVE (NGIRI)-2019.

Role in the project: **Main PI /Supervisor**

B. MINISTRY OF HIGHER EDUCATION MALAYSIA PROJECT

Title of Project: **iBOSS-MAC: inter-connected Body Sensors for Traffic Priority-Aware and Reliable Medium Access Control Protocol for Wireless Body Area Network**

This project is supported by Ministry of Higher Education Malaysia (MOHE) and conducted in collaboration with Research Management Center (RMC) at Universiti Teknologi Malaysia under Vote NUMBER:RJ130000.7828.4F859. 2017-2019

Role in the project: **Co-PI**

C. MINISTRY OF HIGHER EDUCATION SAUDI ARABIA PROJECT

Title of Project: **Interconnected Body Sensor Networks for Emergency Response Support (iBOS)**

This research project is supported by the National Science, Technology, and Innovation Plan (NSTIP) and conducted in collaboration with Science and Technology Unit (STU), at Umm Al-Qura University, Makkah, Kingdom of Saudi Arabia. 2012-2014

Role in the project: **Key Researcher**

PROJECTS UNDER REVIEW

1. Smart Robotic Pattern Drawing For Pakistan's Textile Industry
2. An Improved Smart Assessment Sensing Development HealthCare Monitoring System Using Smartwatch Interface
3. Development of the Smart Irrigation System Based On Real Time Data for Sustainable Agriculture in Pakistan

Above projects submitted to **NGIRI in Month of May 2022.**

SUPERVISION

PHD SCHOLARS

1. Hamid Asmat
Thesis Title: "An Improved Content Updated-based energy efficient caching scheme for Information Centric Network-based Internet of Things"
Status: PhD Thesis writing in progress (Fall 2019)
2. Saima Jamil
Thesis Title: Patient health monitoring and data dissemination using IoT and Big Data approaches
Status: PhD proposal writing in Progress (Fall 2019)

MASTER STUDENTS

1. Abid Durrani
Thesis Title: "Development of the Smartphone Based Medicine Reminder and Vital Signs Monitoring System"
Status: Master degree completed (2020)
2. Abou Bakar Naman
Thesis Title: "Development of Software Effort Estimation System using Bayesian Belief Networks for Large scale Dataset"
Status: Thesis writing in final phase (Spring 2020)
3. Gohar Ali
Thesis Title: "N-GRAM BASED FRAMEWORK FOR URDU NEWS CLASSIFICATION"
Status: Thesis writing in final phase (Spring 2020)

Co-SUPERVISION

1. Zaka Ullah
Thesis Title: Delay Aware and Energy-Efficient Path Selection routing schemes for Wireless Body Area Networks
Status: Master degree completed (Fall 2019)
2. Sara Kaleem
Thesis Title: An Improved Requirement Engineering Framework for Internet of Things based Smart Applications using Integrated Approach

Status: Master degree completed (Fall 2019)

GUEST EDITOR TO SI OF JOURNALS

1. Special Issue "The Convergence of Multifunctional Biosensors for Smart Health Monitoring"
https://www.mdpi.com/journal/biosensors/special_issues/A7ZO6L7RUD
Impact Factor: 5.743

SCHOLARLY ACTIVITIES/SERVICES TO PROFESSIONAL SOCIETIES

Technical Programme Committee Member

- Transactions on Network Science and Engineering, 2022
- IEEE Access, 2020
- Computational Materials Science and Thermodynamic Systems, 2018-2019, United Kingdom
- KSII Korean Journal, 2017-2018
- IEEE Sensor Journal, 2016
- BMC Medical Informatics and Decision Making, 2016-2017
- Journal of Biomedical Optics, 2015
- WSCAR 2014 – World Symposium on Computer Application and Research
- International Bio-Metrics and Smart Government Summit- 2014
- International Journal of Core Engineering & Management (iJCEM), May 2014
- GlobeCom 2015
- IEEE Conference, March 2011
- International Conference on Computer Technology and Development, June 2011

ACHIEVEMENTS/AWARDS

- Gold Medal of Chancellor Award, Universiti Teknologi Malaysia (UTM), Oct, 2017
- Medal of Best Student Award, Universiti Teknologi Malaysia (UTM), Oct, 2017
- INTERNATIONAL DOCTORAL FELLOWSHIP (IDF) Scholarships, Universiti Teknologi Malaysia, 2015 to 2017.
- PARS BEST PRESENTER AWARD, RESEARCH GROUP PCRG, UTM, 2015.
- CHAIRPERSON FOR PARS, UTM, 2015
- APTECH Institute of Information & Technology, Peshawar, Project of Student admission System. Tools are used VB.NET2003 and MS. SQL SERVER 2000. 2006
- Microsoft Office (ICT for all) From Dept. Of Computer Science, Islamia College University Peshawar. 2006
- MCSE 2003 certification of 6 months training from the Inara Institute of IT, Peshawar. 2006
- C++ certification of 2 months Course from Brains Degree College, Peshawar. 2003

PARTICIPATION

- Workshop on Historical Geographic Information Systems, Umm Al Qura University Makkah, Under the Ministry of Higher Education, Jan 2013
- Innovation and Entrepreneurship Forum 2013, Umm Al-Qura University Makkah, Under the Ministry of Higher Education, May 2013
- Paper on "Security Protocols for Wireless Sensor Network" presented at 8th National Research Conference – SZABIST Islamabad, Jan 29, 2009.

PROFESSIONAL SKILLS

Network simulation tool NS-2, OPNET, Python
Programming languages C/C++, Java, Php, ASP
Database Oracle, My SQL, SQL Server, MS Access

INTERESTS

Playing Cricket, Travelling, Surfing on the internet for new research areas

COUNTRIES VISITED

- i. Hong Kong
- ii. MACAO SAR CHINA
- iii. Kingdom of Saudi Arabia
- iv. Malaysia
- v. Singapore
- vi. Qatar
- vii. China

LANGUAGES

English (Fluent); Urdu (Fluent); Pashto (Fluent); Arab (Basic)

REFERENCES

Reference 1:

Prof. Dr. Abdul Hanan Abdullah
Professor,
Department of Computer Science,
Universiti Teknologi Malaysia, Malaysia
E-mail: hanan@utm.my

Reference 2:

Prof. Dr. Abdul Samad Haji Ismail
Dean & Professor
Faculty of Computing,
Universiti Teknologi Malaysia
E-mail: abdsamad@utm.my

Reference 3:

Dr. Muhammad Hamad
Assistant Professor, Department of Computer Science, LUMS, Lahore, Pakistan
E-mail: hamad.alizai@lums.edu.pk

Mohib Ullah (PhD)

BIOGRAPHICAL SKETCH

Dr. Mohib Ullah has been working as a senior lecturer at the Institute of Computer Science and Information Technology (ICS & IT) and Deputy Controller of Examination at The University of Agriculture Peshawar, Pakistan, since 2011. He completed his PhD in Computer Sciences from Capital University Islamabad, Pakistan, in 2020 and obtained his MS in Data Network and Security from Birmingham City University UK in 2009. His professional experience includes working as a lecturer at Gandhara Institute of Science and Technology PGS Engineering College Peshawar, Pakistan, from 2003 to 2006. He also worked with OFSTED UK as the inspection support officer, where he performed school inspections in the UK and reported issues relating to pupils' safety and curriculum. His job description includes teaching at the undergraduate, postgraduate, and PhD levels, evaluating postgraduate (MS) students' thesis/synopsis, and conducting research seminars. He holds ten years of research experience. He is an approved HEC's supervisor. He has supervised 15 MS research students and more than 70 undergraduate projects. Currently, he is supervising multiple MS students and two Ph.D. scholars. He has authored and co-authored 25 research articles. He is a master trainer of HEC. (Higher Education Commission of Pakistan) on the novel Undergraduate Education Policy (UEP) 2020. He has trained the teaching faculty of colleges across Pakistan on UEP, training them on adopting modern IT techniques in education and upraising faculty on the semester system, student advising, and curriculum. As a Deputy Controller exam, Dr Mohib Ullah manages and conducts undergraduate and postgraduate exams and administers and oversees the smooth running of the university's secrecy. He loves traveling and has visited most of Pakistan's northern and central parts. He can speak four languages, loves poetry, and enjoys playing chess and snooker.

PERSONAL DETAILS

Address: Haji Habibullah House, Malik Shamsher Street,
Opposite Insaf General store, Near Izzat Khan Chowk,
Gulberg No 4, Peshawar Cantt, Peshawar

Email: mrmohibkhan@gmail.com
Tel: +9291-5245148, +923339379913
Gender: Male
D.O.B: 01/09/1980

Google Scholar: <https://scholar.google.com.pk/citations?user=q9hcKIAAAAAAJ&hl=en>

Linkedin: <https://www.linkedin.com/in/mohib-ullah-4a397b23/>

EDUCATION

2013-2020 CAPITAL UNIVERSITY OF SCIENCE AND TECHNOLOGY, ISLAMABAD, PAKISTAN
PhD Computer Science (Web Search Privacy)
Thesis Title: [Obscure Logging: A Framework to Protect and Evaluate the Web Search Privacy](#)

2007-2009 BIRMINGHAM CITY UNIVERSITY, BIRMINGHAM, UK

- **MS Data Network and Security**
- Developed expertise in Network Security, Network Management Services, IP switching/Routing, Network Designing, Diagnostics and Implementation.
- **M.S. Dissertation Title:** [Impact of multi-radio multi-channel on the performance of Wireless Mesh Network](#)

- 2001-2003 UNIVERSITY OF PESHAWAR, PAKISTAN**
- **MSc Computer Science**
 - Expanded Skills in Networking, Databases, Object-Oriented Programming Languages, Software Engineering, Project Management, Statistics/Mathematics
 - MSc Dissertation Title: [H.P.S. database over Network using oracle](#)
- 1999-2001 ISLAMIA COLLEGE UNIVERSITY OF PESHAWAR, PAKISTAN**
- **BSc Computer Science**

CERTIFICATION / TRAININGS

- | | |
|------|--|
| 2009 | Child Protection & Safeguarding (Training) with OFSTED UK |
| 2009 | Cisco Certified Network Associate (CCNA) 640-802 (972/1000) |
| 2012 | Computer Forensics (Training organized by H.E.C.) |
| 2022 | Capacity Building Training on Novel U.E.P. policy (Training organized by H.E.C.) |

CONFERENCE ATTENDED

- | | |
|------|---|
| 2016 | IEEE Sixth International Conference on Innovative Computing Technology (INTECH). |
| 2016 | IEEE International Conference on Frontiers of Information Technology (F.I.T.) |
| 2016 | International Conference on Emerging Trends in Engineering, Management and Sciences |
| 2017 | IEEE International conference Com, Computing and Digital Systems (C-CODE) |

RESEARCH ARTICLE

JOURNAL PUBLICATION

1. Zahir, S., Khan, R. U., **Ullah, M.**, Ishaq, M., Dilshad, N., Ullah, A., & Lee, M. Y. (2023). Robust Counting in Overcrowded Scenes Using Batch-Free Normalized Deep ConvNet. *Computer Systems Science & Engineering*, 46(3).
2. Akbar, M., **Ullah, M.**, Shah, B., Khan, R. U., Hussain, T., Ali, F., Alenezi, F., & Kwak, K. S. (2022). An effective deep learning approach for the classification of Bacteriosis in peach leave. *Frontiers in Plant Science*, 13, 4723. (6.627 Impact Factor).
3. Zahira, S., Abbasb, A. W., Khanc, R. U., & **Ullah, M.** (2023). Vision Sensor Assisted Fire Detection in IoT Environment using ConvNext. *Journal of Artificial Intelligence and Systems* 5 (1), 23-35
4. Gul, S., Khan, R. U., **Ullah, M.**, Aftab, R., Waheed, A., & Wu, T. Y. (2022). Tanz-Indicator: A Novel Framework for Detection of Perso-Arabic-Scripted Urdu Sarcastic Opinions. *Wireless Communications and Mobile Computing*, 2022. (2.146 Impact Factor).
5. Al-Buraihy, E., Dan, W., Khan, R. U., & **Ullah, M.** (2022). An ML-Based Classification Scheme for Analyzing the Social Network Reviews of Yemeni People. *INTERNATIONAL ARAB JOURNAL OF INFORMATION TECHNOLOGY*, 19(6), 904-914.
6. Ihsan, I., **Ullah, M.**, Khan, R. U., Uddin, M. I., Alharbi, A., & Alosaimi, W. (2022). SEAL: Semantically Enriched Authoring in LATEX—A Model for Scientific Discourse. *IEEE Access*, 10, 13525-13535. **(4.06 Impact Factor)**
7. **Ullah, M.**, Khan, R. U., Khan, I. U., Aslam, N., & Aljameel, S. S. (2022). Profile Aware ObScure Logging (PaOSLo): A Web Search Privacy-Preserving Protocol to Mitigate Digital Traces. *Security and Communication Network*, 2022. <https://doi.org/10.1155/2022/2109024>
8. **Ullah, M.**, Khan, R., Haq, M. I. U., Khan, A., Alosaimi, W., Uddin, M. I., & Alharbi, A. (2021). Multi-Group ObScure Logging (MG-OSLo) A Privacy-Preserving Protocol for Private Web Search. *IEEE Access*, 9, 79005-79020.

9. Farooq, U., **Ullah, M.**, Khan, R. U., Alharbi, A., Uddin, M. I., Haq, M. I. U., & Alosaimi, W. (2021). IDBR: Iot Enabled Depth Base Routing Method for Underwater Wireless Sensor Network. *Journal of Sensors*, 2021. (3.576 Impact Factor)
10. Irfan Ullah Khan, Nida Aslam, Talha Anwar, Sumayh S. Aljameel, **Mohib Ullah**, Rafiullah Khan, Abdul Rehman, Nadeem Akhtar, "Remote Diagnosis and Triaging Model for Skin Cancer Using EfficientNet and Extreme Gradient Boosting", *Complexity*, vol. 2021, Article ID 5591614, 13 pages, 2021. <https://doi.org/10.1155/2021/5591614>
11. Shaheen, M., Khan, R., Biswal, R. R., **Ullah, M.**, Khan, A., Uddin, M. I., & Waheed, A. (2021). Acute Myeloid Leukemia (A.M.L.) Detection Using AlexNet Model. *Complexity*, 2021.
12. **Ullah, M.**, Islam, M. A., Khan, R., Aleem, M., & Iqbal, M. A. (2019). ObScure Logging (OSLo): A Framework to Protect and Evaluate the Web Search Privacy in Health Care Domain. *Journal of Medical Imaging and Health Informatics*, 9(6), 1181-1190.
13. Ullah, R., Abbas, A. W., **Ullah, M.**, Khan, R. U., Khan, I. U., Aslam, N., & Aljameel, S. S. (2021). EEWMP: An IoT-Based Energy-Efficient Water Management Platform for Smart Irrigation. *Scientific Programming*, 2021.
14. Khan, I. U., Aslam, N., Anwar, T., Aljameel, S. S., **Ullah, M.**, Khan, R., Rehamn, A., & Akhtar, N. "Remote diagnosis and triaging model for skin cancer using EfficientNet and Extreme Gradient Boosting". *Complexity*, 2021.
15. Khan, R., **Ullah, M.**, Khan, A., Uddin, M. I., & Al-Yahya, M. (2021). NN-QuPiD Attack: Neural Network-Based Privacy Quantification Model for Private Information Retrieval Protocols. *Complexity*, 2021.
16. Haq, N. U., **Ullah, M.**, Khan, R., Ahmad, A., Almogren, A., Hayat, B., & Shafi, B. (2020). USAD: An Intelligent System for Slang and Abusive Text Detection in PERSO-Arabic-Scripted Urdu. *Complexity*, 2020.
17. Ahmad, Y., **Ullah, M.**, Khan, R., Shafi, B., Khan, A., Zareei, M., ... & Mohamed, E. M. (2020). SiFSO: Fish Swarm Optimization-Based Technique for Efficient Community Detection in Complex Networks. *Complexity*, 2020.
18. Sadia, H., **Ullah, M.**, Hussain, T., Gul, N., Hussain, M. F., ul Haq, N., & Bakar, A. (2020). An efficient way of finding polarity of roman urdu reviews by using Boolean rules. *Scalable Computing: Practice and Experience*, 21(2), 277-289.
19. Khan, R., Ahmad, A., Alsayed, A. O., Binsawad, M., Islam, M. A., & **Ullah, M.** (2020). QuPiD Attack: Machine Learning-Based Privacy Quantification Mechanism for P.I.R. Protocols in Health-Related Web Search. *Scientific Programming*, 2020.
20. Khan, R., Islam, M. A., **Ullah, M.**, Aleem, M., & Iqbal, M. A. (2019). Privacy Exposure Measure: A Privacy-Preserving Technique for Health-Related Web Search. *Journal of Medical Imaging and Health Informatics*, 9(6), 1196-1204.
21. Shah, Sadiq, Khalid Saeed, Mustafa Khan, Rafi Ullah Khan, **Mohib Ullah**, Misbah Daud, and Arbab Waseem Abbas. "Minimization of Information Asymmetry Interference using Partially Overlapping Channel Allocation in Wireless Mesh Networks." *INTERNATIONAL JOURNAL OF ADVANCED COMPUTER SCIENCE AND APPLICATIONS* 9, no. 8 (2018): 626-634.
22. Daud Misbah, Rafiullah Khan, **Mohib Ullah** and Aitazaz Daud. "Roman Urdu Opinion Mining System (RUOMiS)." arXiv preprint arXiv:1501.01386 (2015).

CONFERENCE PUBLICATIONS

- i. Ullah, S. A., Abbas, A. W., **Ullah, M.**, Khan, R., & Rehman, A. U. Unveiling the Power of Deep Learning: A Trailblazing Review on Different Techniques used for Medical Image Segmentation Analysis. in "1st International Conference on Computing Technologies, Tools and Applications", 2023.
- ii. Ali, I., Nawaz, S., **Ullah, M.**, Khan, R., Tariq, M., Din, I. U., ... & Khan, M. Software Cost Estimation: A Comparative Study of COCOMO-II, Halstead and IVR Models, in "1st International Conference on Computing Technologies, Tools and Applications", 2023.
- iii. Siddique, M., Khan, R., **Ullah, M.**, Tamimy, M. I., & Haris, M. Speech Emotion Recognition using Diffusion Map-Based Machine Learning with Classification Technique, in "1st International Conference on Computing

Technologies, Tools and Applications", 2023.

- iv. **Ullah, Mohib**, Rafiullah Khan, and Muhammad Arshad Islam. "Poshida II, a Multi Group Distributed Peer to Peer Protocol for Private Web Search." In *Frontiers of Information Technology (F.I.T.), 2016 International Conference on*, pp. 75-80. IEEE, 2016.
- v. **Mohib Ullah**, Rafiullah Khan, M Arshad Islam. "Poshida, Protocol for Private Information Retrieval." in *Sixth International Conference on Innovative Computing Technology (INTECH)*. IEEE, 2016
- vi. Khan, Rafiullah, **Mohibullah** and Muhammad Arshad Islam. "Quantification of P.I.R. protocols privacy." *Communication, Computing and Digital Systems (C-CODE), International Conference on*. IEEE, 2017.
- vii. R. Khan, **M. Ullah**, and M. A. Islam, "Revealing P.I.R. Protocols Protected Users," in *Sixth International Conference on Innovative Computing Technology (INTECH)*. IEEE, 2016
- viii. Salman Tahir, **Mohib Ullah**, Rafiullah Khan. "The Performance Evaluation of MANET Protocol under varying pause time and simulation area", *2nd International Conference on Emerging Trends in Engineering, Management and Sciences*, 2016.
- ix. R.Khan, J. Naz, **M.Ullah**, "Impact Assessment of Node Density over F.S.R. and D.S.R.", *2nd International Conference on Emerging Trends in Engineering, Management and Sciences*, 2016.

RESEARCH ARTICLES (UNDER REVIEW)

- 1) Cidicxr-Net50: Deep Transfer Learning Based Model for Detection of Covid-19 In Chest X-Ray Image: Journal: *Scientific Reports*.
- 2) Connected Research: An Ontological Model for Scientific Discourse in Scholarly Knowledge Graphs. Journal: *PLoS One*.
- 3) Reason to Cite: A Qualitative Analysis of Citations' Context and Reasons. Journal: *IEEE Access*.

BOOK CHAPTERS

- I. Khan, R., **Ullah, M.**, Shafi, B., Orakzai, U. B., & Shafi, S. (2020). Knocking at Alternate Doors: Survey of Android-Based Smartphone Applications for Alternate Medicines. In *Mobile Devices and Smart Gadgets in Medical Sciences* (pp. 22-38). I.G.I. Global.
- II. **Ullah, M.**, Abbas, A. W., Rukh, L., Ullah, K., & Haq, M. I. U. (2023). State of the Art in Distributed Privacy-Preserving Protocols in Private Web Search. *Protecting User Privacy in Web Search Utilization*, 1-25. I.G.I. Global
- III. Khan, R. U., **Ullah, M.**, Shafi, B., & Ihsan, I. (2023). A Survey on Performance Evaluation Mechanisms for Privacy-Aware Web Search Schemes. In *Protecting User Privacy in Web Search Utilization* (pp. 26-45). IGI Global.
- IV. Khan, R. U., **Ullah, M.**, & Shafi, B. (2023). Web Search Privacy Evaluation Metrics. In *Protecting User Privacy in Web Search Utilization* (pp. 46-62). IGI Global.

M.S. STUDENTS SUPERVISED

- i. Sajid Khan Afridi "Suppression of Inter-Carrier Interference in OFDM for LTE Using DWT in the presence of AWGN and Rayleigh fading" MS CS 2017
- ii. Obaid Ur Rehman "Enhancing Buffer Management In Delay Tolerant Networks Via Novel Message Drop Policy" MS CS 2017
- iii. Salman Tahir "The Performance Evaluation of MANET Protocol under varying pause time and simulation area" MS IT 2016
- iv. Nouman Ul Haq "A Proposed Model for Arabic Urdu Offensive Language Detection in Twitter Tweets" MS CS 2019
- v. Halima Sadia "An Efficient way of Finding Polarity of Roman Urdu Reviews by using Boolean Rules" MS CS 2019

- vi. Yasir Ahmad "An Efficient Network Community Detection Approach using Sigmoid Fish Swarm Optimization Algorithm" MS CS 2019
- vii. Yasir Ullah "Lexicon Based Sentiment Analysis of Pashto Language Using PLPI (Pashto Language Polarity Index)" MS CS 2019
- viii. Faisal Kamal "Performance Evaluation based on Meta Classifier for B.B.C. Text News" MS CS 2019
- ix. Muhammad Aamir Inam "A Method for Optimal Number Nodes in Cluster-Based Wireless Sensor Network" MS CS 2019
- x. Zahid Rehman "Urdu News Clustering Using K-Mean Algorithm on The Basis of Jaccard Coefficient and Dice Coefficient Similarity" MS CS 2019
- xi. Syed Fahim Shah "Identifying heat index increasing factors in Peshawar Region using remote sensing and data mining techniques" MS CS 2020
- xii. Umar Farooq "IoT Based Routing Method for Underwater Sensor Network" MS CS 2021.
- xiii. Munir Akbar "An Effective Deep Learning Approach For Classification Of Bacteriosis In Peach Leave" MS CS 2022.

PH.D. STUDENTS SUPERVISED

1. Iqtidar Ali "Quranic Pedagogy in the Digital Age: An Automated Approach for Teaching and Accent Correction" Research in Progress.
2. Syed Aminullah "Promoting Digital Wellbeing: A Time and Culture-Aware Recommender System" Research in Progress

WORK EXPERIENCE

09/11 till Date Senior Lecturer I.C.S. & I.T. (FMCS)

The University of Agriculture Peshawar

My role is to teach undergraduate and postgraduate courses. I have taught more than 16 undergraduate courses, seven postgraduate courses, and 2 PhD courses. Apart from teaching, research supervision is a primary duty in my role. I have supervised more than 70 undergraduate projects and 13 M.S. research students. Presently, I am supervising seven postgraduate students and 2 PhD scholars. I am a member of the Board of Students, where I evaluate the research thesis/ synopsis of the postgraduate and Ph.D. students. I regularly conduct postgraduate research seminars and evaluate the postgraduate students' research.

05/23 – To Date Deputy Controller of Examination (Additional Duties)

The University of Agriculture Peshawar

In my role as the Deputy Controller, I hold the responsibility of conducting and overseeing the administration of both undergraduate and postgraduate examinations, as well as supervising the preservation of confidentiality and the efficient operation of the university's examination procedures.

09/09 – 07/10 Inspection Support Officer at OFSTED UK

I.T.N. Mark Education Wolverhampton

Inspected schools in West Midlands U.K., Identified safeguarding, child protection, bullying, and curriculum issues. Prepared reports and provided support to the lead inspectors.

09/03 – 08/06 IT Lecturer**GIST, PGS Engineering College Peshawar Pakistan**

I delivered lectures covering subjects such as C/C++, networking, data structures, and algorithms. In addition to my teaching responsibilities, I provided guidance and supervision to undergraduate students working on their final-year projects.

OTHER SKILLS

I.T. Skills: I.P. Routing / Switching, Multicasting, Weka tool, ASA / PIX Firewall, IDS/IPS, Fluke performance tool, Wireshark, Microsoft Office, C/C++ / Java programming.

REFEREES

Dr Muhammad Arshad Islam
Associate Professor
FAST NUCES,
Islamabad, Pakistan
Email: arshad.islam@nu.edu.pk


Dr Dawood Jan
Professor & Dean FMCS
The University of Agriculture
Peshawar, Pakistan
Email: jandawood@aup.edu.pk

Curriculum Vitae

IZAZ UR RAHMAN (Ph.D.)

izaz@awkum.edu.pk

<http://www.awkum.edu.pk>

 +92-3330915454

Biographical Data

Currently, I am working as an Assistant Professor of Computer Science (TTS) at the Department of Computer Science, Abdul Wali Khan University, Mardan Pakistan.

Post-Doctoral Experience

[University of Southampton](#), United Kingdom (September 2021 – August 2022, **Remote** due to COVID19 pandemic)

Mentor: Prof. Lajos Hanzo [lh@ecs.soton.ac.uk]

Academic Degrees

Ph.D. Brunel University London, Uxbridge, United Kingdom

Computer Science, (October 2011 – September 2015)

Dissertation Title: *Novel Particle Swarm Optimization Algorithms with Applications in Power System*

Supervisors: Prof. Zidong Wang [zidong.wang@brunel.ac.uk] &

Prof. Xiaohui Liu [xiaohui.liu@brunel.ac.uk]

M.Sc. University of Peshawar, Peshawar, Khyber Pakhtunkhwa, Pakistan

Computer Science, (September 2003 – June 2006).

Dissertation Title: An oracle-based human resource system for Pakistan railways

B.Sc. University of Peshawar, Peshawar, Khyber Pakhtunkhwa, Pakistan

Computer Science, (September 2001 – June 2003).

Research Interests

Nature Inspired Computing, swarm intelligence, computational modelling (evolution, development, and learning), self-organization and adaptation, complex and energy constrained environment, evolutionary multi- and many-objective optimization, robust optimization and dynamic optimization, federated data-driven evolutionary optimization, machine learning techniques, including semi-supervised learning, transfer learning and self-supervised learning, Real-world Applications of Learning and Optimization

Professional Experience

Current Appointments

Regular

Assistant Professor, Abdul Wali Khan University, Mardan (**On-Duty August 1st, 2016 – to-date**)

Director (Directorate of IT) Abdul Wali Khan University, Mardan (**Additional Charge / Dec 2015 to Jan 2017**)

Lecturer, Abdul Wali Khan University, Mardan (from **Sep 15, 2010 – July 31st, 2016**)

Previous Appointments

Temporary

Oct 2011 – Sep 2015

Graduate Teaching Assistant, Department of Computer Science, School of Engineering & Design, Brunel University London, United Kingdom

Invigilator for Examinations, Brunel University London, United Kingdom

Team Lead: Library extend hours

September 2007 – 10th September 2010

Lecturer Government Degree College Lund Khwar, Mardan, Pakistan

Industrial Experience

Internship: Works & Services Department, Govt. of Khyber Pakhtunkhwa (Jul 2006 – August 2007)

Honors and Awards

Selected for Brunel University London, United Kingdom Ph.D. studentship award (2011)

Selected for Faculty Development Scholarship at AWKUM, Pakistan

Google Scholar Profile

https://scholar.google.com.pk/citations?hl=en&user=y4x_i2MAAAAJ

Publications (post Ph.D.)

Journal papers, Impact factor [Published]

1. Rahman A, Ali H, Badshah N, Zakarya M, Hussain H, **Rahman IU**, Ahmed A, Haleem M. Power mean-based image segmentation in the presence of noise. Scientific Reports. 2022 Dec 7;12(1):21177. , **(IF 4.996), 2021**
2. Afzal Rahman, Haider Ali, Noor Badshah, Lavdie Rada, Muhammad Zakarya, Hameed Hussain, Ayaz Ali Khan, Aftab Ahmed, **Izaz Ur Rahman**, Mushtaq Raza, Muhammad Haleem “A Selective Segmentation Model using Dual-level Set Functions and Local Spatial Distance”, in the IEEE Access, **(IF 3.367), 2022**
3. Muhammad Adnan, Alaa Abdul Salam Alarood, M. Irfan Uddin, **Izaz Ur Rahman**, “Utilizing grid search cross-validation with adaptive boosting for augmenting performance of machine learning models”, in PeerJ Computer Science, **(IF 1.39), 2022**
4. A Ismail, Muhammad Ismail Mohmand, Hameed Hussain, Ubaid Ullah, Muhammad Zakarya, Mushtaq Raza, Aftab Ahmed, **Izaz Ur Rahman**, Ayaz Ali Khan, Muhammad Haleem “A Machine Learning based Classification and Prediction Technique for DDoS Attacks”, in the IEEE Access, **(IF 3.367), 2022**
5. Hashim Ali, Muhammad Zakarya, **Izaz Ur Rahman**, Ayaz Ali Khan, Rajkumar Buyya, “FollowMe@ LS: Electricity price and source aware resource management in geographically distributed heterogeneous datacenters”, in elsevier Journal of System and Software, **(IF 2.829) 2021.**
6. Muhammad Zakarya, Lee Gillam, Ayaz Ali Khan, **Izaz Ur Rahman**, “Perficientcloudsim: a tool to simulate large-scale computation in heterogeneous clouds”, in Springer The Journal of Supercomputing, **(IF 2.474) 2021**
7. Ayaz Ali Khan, Muhammad Zakarya, **Izaz Ur Rahman**, Rahim Khan, Rajkumar Buyya, “HeporCloud: An energy and performance efficient resource orchestrator for hybrid heterogeneous cloud computing environments”, in elsevier Journal of Network and Computer Applications, **(IF 6.281), 2021.**
8. Wei Yao, Fazlullah Khan, Mian Ahmad Jan, Nadir Shah, **Izaz Ur Rahman**, Abid Yahya Ateeq ur Rehman, “Artificial intelligence-based load optimization in cognitive Internet of Things”, in Springer Neural Computing and Applications, **(IF 5.606), 2020.**
9. **Izaz Ur Rahman**, Muhammad Zakarya, Mushtaq Raza, Rahim Khan, “An n-state switching PSO algorithm for scalable optimization”, in Springer Soft Computing Journal, **(IF 3.643), 2020.**

10. Muhammad Zakarya, Lee Gillam, Hashim Ali, **Izaz Ur Rahman**, Khaled Salah, Rahim Khan, Omer Rana, Rajkumar Buyya, "Epcaware: a game-based, energy, performance and cost efficient resource management technique for multi-access edge computing", in IEEE Transactions on Services Computing, **(IF 8.216), 2020**.
11. **Izaz Ur Rahman**, Zidong Wang, Weibo Liu, Baoliu Ye, Muhammad Zakarya, Xiaohui Liu, "An N-State Markovian Jumping Particle Swarm Optimization Algorithm", in IEEE Transactions on Systems, Man, and Cybernetics: Systems, **(IF 13.451), 2020**.
12. Rahim Khan, Muhammad Zakarya, Ayaz Ali Khan, **Izaz Ur Rahman**, Mohd Amiruddin Abd Rahman, Muhammad Khalis Abdul Karim, Mohd Shafie Mustafa, "A Heuristic Approach for Finding Similarity Indexes of Multivariate Data Sets", in IEEE Access, **(IF 3.367), 2020**.
13. Ayaz Ali Khan, Muhammad Zakarya, Rahim Khan, **Izaz Ur Rahman**, Mukhtaj Khan, "An energy, performance efficient resource consolidation scheme for heterogeneous cloud datacenters", in elsevier Journal of Network and Computer Applications, **(IF 6.281), 2020**.
14. Ayaz Ali Khan, Abid Ali, Muhammad Zakarya, Rahim Khan, Mukhtaj Khan, **Izaz Ur Rahman**, Mohd Amiruddin Abd Rahman, "A migration aware scheduling technique for real-time aperiodic tasks over multiprocessor systems", in IEEE Access, **(IF 3.367), 2019**
15. Mian Ahmad Jan, Syed Rooh Ullah Jan, Muhammad Alam, Adnan Akhuzada, **Izaz Ur Rahman**, "A comprehensive analysis of congestion control protocols in wireless sensor networks", in Springer Mobile Networks and Applications, **(IF 3.426), 2018**
16. Liang Hu, Zidong Wang, **Izaz Ur Rahman**, Xiaohui Liu, "A constrained optimization approach to dynamic state estimation for power systems including PMU and missing measurements", in IEEE Transactions on Control Systems Technology, **(IF 5.485), 2015**

Conference papers

1. Fazlullah Khan, Ateeq ur Rehman, Mian Ahmad Jan and **Izaz Ur Rahman** "Efficient resource allocation for real time traffic in cognitive radio Internet of Things" in the 12th IEEE International Conference on Internet of Things, Atlanta, USA, 2019.
2. Hanif Ur Rahman, Ateeq Ur Rehman, Shah Nazir, **Izaz Ur Rahman**, Nizam Uddin, "Privacy and security—limits of personal information to minimize loss of privacy" in , Lecture Notes in Networks and Systems, vol 70. Springer, Cham,2019
3. Faizan Badshah, Syed Tauhid Ullah Shah, Syed Roohullah Jan, and **Izaz Ur Rahman**, "Communication between multiple processes on same device using TCP/IP suite" in International Conference on Communication, Computing and Digital Systems (C-CODE), IEEE, Islamabad, Pakistan, 2017.
4. Fazlullah Khan, Mukhtaj Khan, Zafar Iqbal, **Izaz Ur Rahman** and Muhammad Alam, Secure and safe surveillance system using sensors networks-internet of things, in International Conference on Future Intelligent Vehicular Technologies, Springer, Cham, Porto, Portugal, 2016.

5. Zidong Wang, Liang Hu, **Izaz Ur Rahman**, and Xiaohui Liu, A constrained optimization approach to dynamic state estimation for power systems including PMU measurements, in IEEE 19th International Conference on Automation and Computing, London, UK, 2013.
6. Muhammad Zakarya, **Izaz Ur Rahman**, and Ayaz Ali Khan, "Energy crisis, global warming and IT industry, Can the IT professionals make it better someday A review" in IEEE International Conference on Emerging Technologies, Islamabad, Pakistan, 2012.

Book Chapters

1. Fazlullah Khan, **Izaz Ur Rahman**, Mukhtaj Khan, Nadeem Iqbal, and Muhammad Alam, "*CoAP-Based Request-Response Interaction Model for the Internet of Things*" in Lecture Notes of the Institute for Computer Sciences, Social Informatics and Telecommunications Engineering book series (LNICST, volume 185), Future Intelligent Vehicular Technologies (pp. 146-156), Publisher Springer, 2016.

Teaching

Abdul Wali Khan University, Pakistan

Artificial Intelligence, Data mining and data warehousing

Fuzzy logic, business intelligence,

Introduction to communication technology, database systems

Programming with C, C++ and internet programming etc.

Students Supervision [Research]

PhDs	(1)	[Produced 1 Ph.D. as Principal Supervisor]
MS/MPhil	(10)	[Produced 10 MS as Principal Supervisor]

Students Supervision [Projects]

BS(CS), MCS	(100+)
-------------	--------

Professional Activities

1. University administrator for Turnitin
2. Focal person to Higher Education Commission Islamabad, Pakistan
3. IN charge plagiarism policy AWKUM

Editorial Member [handling manuscripts reviews for 5 journals – 150+ papers]

Associate Editor, International Journal of Network Dynamics and Intelligence (IJNDI)

Academic Editor, Scientifica, Hindawi

Guest Editor, Mobile Information System, Hindawi

PGR Students Representative, Brunel University London, UK (2015)

Refereeing for 100+ International Journals, Transactions, and Conferences [600+ papers]

[An incomplete list]

IEEE Transactions on Parallel and Distributed Systems (TPDS), IEEE Transactions on Systems, Man and Cybernetics: Systems, IEEE Systems Journal, IEEE Embedded Systems Letters, IEEE Access, IEEE Transactions on Smart Grid, IEEE Transactions on Emerging Topics in Computing,

The Journal of Supercomputing (Springer), Journal of Cloud Computing (Springer), Artificial Intelligence Review, Computing (Springer), Cluster Computing (Springer), Telecommunication Systems (Springer), Multimedia Tools and Applications (Springer),

Simulations Modelling Practice and Theory (Elsevier), Future Generation Computer Systems (Elsevier), Journal of Networks and Computer Applications (Elsevier), Computers and Security (Elsevier), Renewable and Sustainable Energy Review (Elsevier), Computer Science Review (Elsevier), Internet of Things (Elsevier),

Concurrency and Computation: Practice & Experience, Transactions on Emerging Telecommunications Technologies (Willy), International Journal of Computers and Applications (Taylor), International Journal of Distributed Sensor Networks, Internet Technology Letters (Willy),

Scientific Programming (Hindawi), Journal of Healthcare Engineering (Hindawi), Mobile Information System (Hindawi),

ACM Transactions on Autonomous and Adaptive Systems, Various national and international level conferences including **CCGrid2021**, UCC, ICET, INMIC, GECON, GLOBECOM, FIT

Technical Program Committee Memberships [Conferences and Workshops]

TPC member for Int. Conference on Intelligent Systems and HCI (ISHCI), China, **2023**

TPC member for Int. Conference on Intelligent System and Smart Technologies, Morocco, **2023**

TPC member for 15th IEEE/ACM International Conference on Utility and Cloud Computing, **2022**

TPC member for 2nd ICCAIS conference, **2022**, [online]

TPC member for 14th ICCCI conference, **2022**, Tunisia

TPC member for 12th CLOSER conference, **2022** [online]

TPC member for Int. Conf. on Computer Modeling and Big Data Analytics (CMBDA), **2022**, China

TPC member for 19th Frontiers of Information Technology (FIT) conference, **2022**, Pakistan

TPC member for 19th International Conference on GECON, **2022**

TPC member for 22nd IEEE/ACM CCGrid2022 Symposium, Italy, **2022**

TPC member for 8th IEEE/ACM International Conference on BDCAT, **2021**

TPC member for 14th IEEE/ACM International Conference on Utility and Cloud Computing, **2021**

TPC member for 18th International Conference on GECON, **2021**

TPC member for 18th Frontiers of Information Technology (FIT) conference, **2021**, Pakistan

TPC member for 21st IEEE/ACM CCGrid2021 Symposium, Australia, **2021**

TPC member for 4th International Conference on New Trends in ICT Application (NTICT), Iraq, **2019**

TPC member for 3rd International Conference on New Trends in ICT Application (NTICT), Iraq, **2018**

TPC member for 17th IEEE International Multi Topic Conference (INMIC), Pakistan, **2014**

Thesis Evaluation, External Examiner, and other Activities

Evaluating MS and Ph.D. theses followed by defense seminars for various Universities

Coordinator undergraduate program

Member of the Admission Committee

References

DR. ZIDONG WANG (MAE, MEASA, FIEEE) (ACADEMIC), Ph.D. THESIS SUPERVISOR

Professor, Department of Computer Science,
Brunel University London, Uxbridge, United Kingdom

Email: Zidong.Wang@brunel.ac.uk
Web: people.brunel.ac.uk/~csstzzw/
Tel: ++44/1895 266021
Fax: ++44/1895 251686

PROF. XIAOHUI LIU (ACADEMIC)

Head of the Intelligent Data Analysis (IDA) Group,
Brunel University London, United Kingdom

Email: xiaohui.liu@brunel.ac.uk,
Tel: [+44 \(0\)1895 265989](tel:+44(0)1895265989)

DR. ALI TARHINI ASSOCIATE PROFESSOR (RESEARCH COLLABORATIVE)

Associate Professor of Information Systems at Sultan Qaboos University, Oman

Email: alitarhini@squ.edu.om
Tel: Office No. 2018
Ext. 2911

DR. NASRO MIN ALLAH (RESEARCH COLLABORATIVE),

Professor, College of S & IT, Imam Abdulrahman Bin Faisal University, Dammam, Saudi Arabia
Scientist & Postdoc Fellow CSAIL, MIT, USA

Tel: +966-541-671553
Email: [nabdullatief@uod.edu.sa, nasar@mit.edu]