

Muhammad Ali Tahir

Assistant Professor

School of Electrical Engineering and Computer Science

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About

Dr. Muhammad Ali Tahir is working as Assistant Professor in the School of Electrical Engineering and Computer Science. Dr. Muhammad Ali Tahir has a PhD in Computer Science. Dr. Muhammad Ali Tahir has published 24 research articles & conference papers having a citation count of 74, carried out 0 projects and filed 1 intellectual property.

Qualifications

PhD in Computer Science Rheinisch Westfälische Technische Hochschule Aachen , Germany	2008 - 2015
MSc in Computer Science Rheinisch Westfälische Technische Hochschule Aachen , Pakistan	2005 - 2008
BE in Computer Engineering NUST, Islamabad , Pakistan	1999 - 2003

Experience

Assistant Professor School of Electrical Engineering and Computer Science	2023- Present
Assistant Professor School of Electrical Engineering and Computer Science	2021 - 2021
Assistant Professor School of Electrical Engineering and Computer Science	2021 - 2021
Assistant Professor School of Electrical Engineering and Computer Science	2020 - 2021
Assistant Professor School of Electrical Engineering and Computer Science	2017 - 2020
Assistant Professor School of Electrical Engineering and Computer Science	2016 - 2017
Research assistant RWTH Aachen , Templergraben 55, Aachen, Germany	2011 - 2015
Design Engineer CARE Pvt Ltd , 19 Ataturk Ave Sector G51 Islamabad	2003 - 2005

Professional Memberships

PEC	Since 2003
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Research Articles

Data-Driven Spatial Analysis of Reforestation in Pakistan: Identifying Optimal Locations for Sustainable Forest Growth and Climate Change Mitigation

Amna Faisal Rafia Mumtaz Muhammad Deedahwar Mazhar Qureshi Muhammad Ali Tahir N. Z. Jhanjhi Mehedi Masud Mohammad Shorfuzzaman

IEEE ACCESS, Volume 12, Pages 190375-190388

Impact Factor: 3.400 | **Quartile:** 2 | **Citations:** 1

DOI: 10.1109/ACCESS.2024.3510565

2024

Neural Machine Translation Models with Attention-Based Dropout Layer

Huma Israr Safdar Abbas Khan Muhammad Ali Tahir Muhammad Khuram Shahzad Muneer Ahmed Mohamad Zain

Computers, Materials and Continua, Volume 75, Issue 2, Pages 2981-3009

Impact Factor: 3.860 | **Quartile:** 2 | **Citations:** 13

DOI: <https://doi.org/10.32604/cmc.2023.035814>

2023

Natural language understanding of map navigation queries in Roman Urdu by joint entity and intent determination

Javeria Hassan Muhammad Ali Tahir Adnan Ali

PeerJ Computer Science, Volume 7, Article Number e615

Impact Factor: 2.411 | **Quartile:** 2

DOI: <https://doi.org/10.7717/peerj-cs.615>

2021

Secure Route-Obfuscation Mechanism with Information-Theoretic Security for Internet of Things

Abid Rauf Zhaohong Wang Hasan Sajid Muhammad Ali Tahir

Sensors, Volume 20(15), Article Number 4221

Impact Factor: 3.576 | **Quartile:** 2 | **Citations:** 3

DOI: <https://doi.org/10.3390/s20154221>

2020

Incorporating Noise Robustness in Speech Command Recognition by Noise Augmentation of Training Data

Ayesha Pervaiz Fawad Hussain Huma Israr Muhammad Ali Tahir Fawad Riasat Raja Naveed Khan Baloch Farruh Ishmanov Yousaf Bin Zikria

Sensors, Volume 20(8), Article Number 2326

Impact Factor: 3.576 | **Quartile:** 2 | **Citations:** 44

DOI: <https://doi.org/10.3390/s20082326>

2020

Training of reduced-rank linear transformations for multi-layer polynomial acoustic features for speech recognition

Muhammad Ali Tahir Heyun Huang Albert Zeyer Ralf Schlüter Hermann Ney

Speech Communication, Volume 110, Pages 56-63

Impact Factor: 1.417 | **Quartile:** 3 | **Citations:** 10

DOI: 10.1016/j.specom.2019.03.006

2019

Conference Proceedings

A Survey of Sentiment Analysis of Internet Textual Data and Application to Pakistani YouTube User Comments

Mehwish Rani Seemab Latif Muhammad Ali Tahir Rafia Mumtaz

IEEE International Conference on Digital Futures and Transformative Technologies (ICoDT2), res.country(177,)

Citations: 3

DOI: <https://doi.org/10.1109/ICoDT252288.2021.9441524>

2021

A review of the prevalent ICT techniques used for COVID-19 SOP violation detection

Talha Ikram Abdullah Saeed Noor Ul Ayn Muhammad Ali Tahir Rafia Mumtaz

2020 IEEE 17th International Conference on Smart Communities: Improving Quality of Life Using ICT, IoT and AI (HONET) res.country(233,)

Citations: N/A

DOI: 10.1109/HONET50430.2020.9322821

2020

A Survey of Artificial Intelligence and Internet of Things (IoT) based approaches against Covid-19

Osama Nadeem Muhammad Shajee Saeed Muhammad Ali Tahir Rafia Mumtaz

2020 IEEE 17th International Conference on Smart Communities: Improving Quality of Life Using ICT, IoT and AI (HONET) res.country(233,)

Citations: N/A

DOI: 10.1109/HONET50430.2020.9322829

2020

Internet of Things (IoT) and Machine Learning (ML) enabled Livestock Monitoring

Abdul Aziz Chaudhry Rafia Mumtaz Syed Mohammad Hassan Zaidi Muhammad Ali Tahir Syed Hassan Muzammil School

2020

<i>IEEE 17th International Conference on Smart Communities: Improving Quality of Life Using ICT, IoT and AI (HONET)</i> res.country(233,)	
Citations: N/A	
DOI: 10.1109/HONET50430.2020.9322666	
Efficient Distributed Key Agreement for Edge Devices in the Internet of Things with Information-Theoretic Security	2020
<i>Abid Rauf Zhaohong Wang Hasan Sajid Muhammad Ali Tahir</i>	
<i>7th International Cryptology and Information Security Conference 2020 (CRYPTOLOGY2020)</i> , res.country(157,)	
Citations: N/A	
DOI: not assigned so far	
Predictive Analytics in Healthcare for Diabetes Prediction	2019
<i>Faizan Zafar Saad Raza Muhammad Umair Khalid Muhammad Ali Tahir</i>	
<i>ICBET 2019 9th International Conference on Biomedical Engineering and Technology</i> , res.country(113,)	
Citations: N/A	
DOI: 10.1145/3326172.3326213	
A Supervised Machine Learning Based Approach for Automatically Extracting High-Level Threat Intelligence from Unstructured Sources	2018
<i>Yumna Ghazi Zahid Anwar Rafia Mumtaz Shahzad saleem Ali Tahir</i>	
<i>2018 International Conference on Frontiers of Information Technology (FIT)</i> , res.country(177,)	
Citations: N/A	
DOI: https://doi.org/10.1109/FIT.2018.00030	
Classification of Breast Cancer Histology Images using ALEXNET	2018
<i>wajahat nawaz sagheer ahmed ali tahir hassan aqeel khan</i>	
<i>15th International Conference on Image Analysis and Recognition</i> , res.country(183,)	
Citations: N/A	
DOI: 10.1007/978-3-319-93000-8_99	
Improvements in RWTH LVCSR evaluation systems for Polish, Portuguese, English, Urdu, and Arabic	2015
<i>Mahaboob Ali Basha Shaik Zoltan Tieske Muhammad Ali Tahir Markus Nussbaum-Thom Ralf Schlueter Hermann Ney</i>	
<i>16th Annual Conference of the International Speech Communication Association</i> , res.country(57,)	
Citations: N/A	
DOI: http://www.isca-speech.org/archive/interspeech/_2015/i15/_3154.html	
Integrating Gaussian Mixtures into Deep Neural Networks: Softmax Layer with Hidden Variables	2015
<i>Zoltan Tieske Muhammad Ali Tahir Ralf Schlueter Hermann Ney</i>	
<i>IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP)</i> , res.country(13,)	
Citations: N/A	
DOI: https://doi.org/10.1109/ICASSP.2015.7178779	
Investigation of Mixture Splitting Concept for Training Linear Bottlenecks of Deep Neural Network Acoustic Models	2015
<i>Muhammad Ali Tahir Simon Wiesler Ralf Schlueter Hermann Ney</i>	
<i>IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP)</i> , res.country(13,)	
Citations: N/A	
DOI: https://doi.org/10.1109/ICASSP.2015.7178845	
RWTH LVCSR Systems for Quaero and EU-Bridge: German, Polish, Spanish and Portuguese	2014
<i>Mahaboob Ali Basha Shaik Zoltan Tieske Muhammad Ali Tahir Markus Nussbaum-Thom Ralf Schlueter Hermann Ney</i>	
<i>15th Annual Conference of the International Speech Communication Association</i> , res.country(197,)	
Citations: N/A	
DOI: not assigned	
Training Log-Linear Acoustic Models in Higher-Order Polynomial Feature Space for Speech Recognition	2013
<i>Muhammad Ali Tahir Heyun Huang Ralf Schlueter Hermann Ney Louis Ten Bosch Bert Cranen Lou Boves</i>	
<i>14th Annual Conference of the International Speech Communication Association</i> , res.country(75,)	
Citations: N/A	
DOI: not assigned	
Simultaneous Discriminative Training and Mixture Splitting of HMMs for Speech Recognition	2012
<i>Muhammad Ali Tahir Markus Nussbaum-Thom Ralf Schlueter Hermann Ney</i>	
<i>13th Annual Conference of the International Speech Communication Association</i> , res.country(233,)	

Citations: N/A
DOI: not assigned

A Web-based visualisation tool for analysing mouse movements to support map personalisation <i>Ali Tahir Gavin McArdle Michela Bertolotto</i> <i>International Conference on Database Systems for Advanced Applications DASFAA 2011, res.country(48,)</i> Citations: N/A DOI: 10.1007/978-3-642-20244-5_13	2011
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Book Chapters

A Rural Healthcare Mobile App: Urdu Voice-Enabled Mobile App for Disease Diagnosis <i>Rafia Mumtaz Muhammad Ali Tahir Afaq Ahmed Ahmad Ali Khan Ismail Shah</i> In: <i>Book on Empowering Sustainable Industrial 4.0 Systems With Machine Intelligence</i> , Chapter 12, Pages 251-280 Citations: N/A DOI: https://doi.org/10.4018/978-1-7998-9201-4.ch012	2022
Temporal Analysis and Prediction of Ambient Air Quality Using Remote Sensing, Deep Learning, and Geospatial Technologies <i>Rafia Mumtaz Muhammad Ali Tahir Aymen Bashir Abdullah Mughal</i> In: <i>Book on Empowering Sustainable Industrial 4.0 Systems With Machine Intelligence</i> , Chapter 2, Pages 25-59 Citations: N/A DOI: https://doi.org/10.4018/978-1-7998-9201-4.ch002	2022
Automated Multi-Sensor Board for IoT and ML-Enabled Livestock Monitoring <i>Rafia Mumtaz Muhammad Ali Tahir Abdul Aziz Chaudhry Usman Ahmad Siddiqui Syed Hassan Muzammil</i> In: <i>Book on Empowering Sustainable Industrial 4.0 Systems With Machine Intelligence</i> , Chapter 3, Pages 60-85 Citations: N/A DOI: https://doi.org/10.1007/10.4018/978-1-7998-9201-4.ch003	2022

Editorial Activities

Reviewed Papers for Journals Impact Factor: 1.009	2020
Reviewed Papers for Journals Impact Factor: 3.745	2020

Intellectual Property

Copyrights Emotion Identification and Analysis on Call Center Audio Status: Filed	2019
Patents	
Industrial Designs	
Trademarks	