

Aimal Khan

Assistant Professor

College of Electrical & Mechanical Engineering

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About

Dr. Aimal Khan is working as Assistant Professor in the College of Electrical & Mechanical Engineering. Dr. Aimal Khan has a PhD in Wireless Communication. Dr. Aimal Khan has published 29 research articles & conference papers having a citation count of 98, carried out 0 projects and filed 0 intellectual property.

Qualifications

PhD in Wireless Communication Universität Rostock , Germany	2008 - 2012
MS in Communication Technology Christian-Albrechts-Universität Kiel , Germany	2005 - 2007
BS in Computer Engineering University of Veterinary & Animal Science , Pakistan	2001 - 2005

Experience

Assistant Professor College of Electrical & Mechanical Engineering	2022- Present
Assistant Professor College of Electrical & Mechanical Engineering	2019 - 2022
Assistant Professor College of Electrical & Mechanical Engineering	2016 - 2019
Assistant Professor College of Electrical & Mechanical Engineering	2016 - 2016
R&D Engineer Seleon pvt ltd Germany , Im zukunft 1, Heilbronn, Germany	2013 - 2016
Engineer for Digital Systems D CARE, Pakistan , islamabad	2005 - 2005

Awards

Gold Medal Obtained Gold Medal for securing first position in FSc Examination in the overall Malakand Board.	2001
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Professional Memberships

PEC

Research Articles

- Machine Learning and Signal Processing Based Analysis of sEMG Signals for Daily Action Classification** 2022
Sajid Gul Khawaja Muhammad Usman Akram Aimal Khan Arsalan Shaukat Ayesha Sadiq Norah Saleh Alghamdi
IEEE Access, Volume 10, Pages 40506-40516
Impact Factor: 3.476 | **Quartile:** 2 | **Citations:** 8
DOI: 10.1109/ACCESS.2022.3166885
- Automatic Diagnosis of Pneumothorax from Chest Radiographs: A Systematic Literature Review** 2021
Arsalan Shaukat Zartasha Mustansar Tahira Iqbal Muhammad Usman Akram Aimal Khan
IEEE Access, Volume 9, Pages 145817-145839
Impact Factor: 3.367 | **Quartile:** 2 | **Citations:** 9
DOI: 10.1109/ACCESS.2021.3122998
- Joint Energy Efficient Power and Subchannel Allocation for Uplink MC-NOMA Networks** 2020
Aimal Khan Bushra Rashid Ayaz Ahmad Sajid Saleem
International Journal of Communication Systems, Pages 1-18, Article Number e4606
Impact Factor: 2.047 | **Quartile:** 3 | **Citations:** 8
DOI: <http://dx.doi.org/10.1002/dac.4606>
- Approximate Proximal Gradient-Based Correlation Filter for Target Tracking in Videos: A Unified Approach** 2019
Aimal Khan Haris Masood Saad Rehman Farhan Riaz Ali Hassan Muhammad Abbas
Arabian Journal for Science and Technology, Volume 44, Issue 11, Pages 9363-9380
Impact Factor: 1.711 | **Quartile:** 2 | **Citations:** 7
DOI: 10.1007/s13369-019-03861-3
- Efficient Sizing and Placement of Distributed Generators in Cyber-Physical Power Systems** 2019
Faheem Ud Din Ayaz Ahmad Hameed Ullah Tariq Umer Shaohua Wan Aimal Khan
Journal of Systems Architecture, Volume 97, Pages 197-207
Impact Factor: 2.552 | **Quartile:** 2 | **Citations:** 35
DOI: 10.1016/j.sysarc.2018.12.004
- Energy-efficient resource allocation and RRH association in multitier 5G H-CRANs** 2019
Sher Ali Ayaz Ahmad Aimal Khan
Transactions on Emerging Telecommunications Technologies, Volume 30, Issue 1, Article Number e3521
Impact Factor: 1.594 | **Quartile:** 3 | **Citations:** 17
DOI: 10.1002/ett.3521
- On the mutual information of relaying protocols** 2018
Saad Rehman Aimal Khan Muhammad Abbas Ayaz Ahmad
Physical Communication, Volume 30, Pages 33-42
Impact Factor: 1.451 | **Quartile:** 3 | **Citations:** 7
DOI: 10.1016/j.phycom.2018.07.005
- Efficient motion estimation using two?bit transform and modified multilevel successive elimination** 2018
Farhan Hussain Mian Ilyas Ahmad Sajid Anwar Aimal Khan Pyoung Won Kim
Journal of Ambient Intelligence and Humanized Computing, pp 1–7
Impact Factor: 1.910 | **Quartile:** 3 | **Citations:** 1
DOI: 10.1007/s12652-018-0996-8
- Analysis of channel uncertainty in ARQ relay networks** 2018
Hina Ajmal Aimal Khan Saad Rehman Farhan Hussain Mohammad Alam Rupert Young
PLoS ONE, Volume 13(1), Article Number e0190622
Impact Factor: 2.776 | **Quartile:** 2
DOI: 10.1371/journal.pone.0190622
- Throughput improvement by reliability-dependent layer allocation in IDM** 2008
J.Ch. Fricke P.A. Hoeher Aimal Khan
Electronic Letter, Volume 44, Issue 16, Pages 958-960
Impact Factor: 1.140 | **Quartile:** 2
DOI: 10.1049/el:20081084

Conference Proceedings

<p>Towards the Selection of the Best Machine Learning Techniques and Methods for Urinalysis</p> <p><i>Babar Zeb Aimal Khan Younas Khan Muhammad Faisal Masood Iqra Tahir Muhammad Asad</i></p> <p><i>12th International Conference on Machine Learning and Computing, res.country(48,)</i></p> <p>Citations: N/A</p> <p>DOI: https://doi/10.1145/3383972.3384031</p>	2020
<p>Towards the Selection of Best Machine Learning Model for Student Performance Analysis and Prediction</p> <p><i>Muhammad Faisal Masood Aimal Khan Farhan Hussain Arslan Shaukat Babar Zeb Rana Muhammad Kaleem Ullah</i></p> <p><i>6th International Conference on Soft Computing & Machine Intelligence (ISCMI), res.country(247,)</i></p> <p>Citations: 6</p> <p>DOI: 10.1109/ISCMI47871.2019.9004299</p>	2019
<p>Denoising The Wireless Channel Corrupted Images Using Machine Learning</p> <p><i>Aimal Khan Muhammad Sufian Takreem Saeed Zirak Khan</i></p> <p><i>2019 20th IEEE/ACIS International Conference on Software Engineering, Artificial Intelligence, Networking and Parallel/Distributed Computing (SNPD), res.country(113,)</i></p> <p>Citations: N/A</p> <p>DOI: N/A</p>	2019
<p>Machine Learning Techniques for Heart Disease Datasets: A Survey</p> <p><i>Younas Khan Usman Qamar Nazish Yousaf Aimal Khan</i></p> <p><i>International Conference on Machine Learning and Computing (ICMLC), 2019, res.country(48,)</i></p> <p>Citations: N/A</p> <p>DOI: 10.1145/3318299.3318343</p>	2019
<p>A systematic literature review of continuous Blood glucose monitoring and suggesting-quantity of insulin for diabetic type 1 patient OR artificial pancreas</p> <p><i>Muhammad Asad Usman Qamar Rahmat Ullah Safdar Aimal Khan</i></p> <p><i>2019 11th International Conference on Machine Learning and Computing, res.country(48,)</i></p> <p>Citations: N/A</p> <p>DOI: 10.1145/3318299.3318352</p>	2019
<p>Blood Glucose Level Prediction with minimal inputs using feedforward neural network for diabetic type 1 Patients</p> <p><i>Muhammad Asad Usman Qamar Babar Zeb Younas Khan Aimal Khan</i></p> <p><i>2019 11th International Conference on Machine Learning and Computing, res.country(48,)</i></p> <p>Citations: N/A</p> <p>DOI: 10.1145/3318299.3318354</p>	2019
<p>Comparative study of local binary pattern and its shifted variant for osteoporosis identification</p> <p><i>Hina Ajmal Farhan Hussain Muhammad Abbas Saad Rehman Aimal Khan Rupert Young Mohammad S. Alam</i></p> <p><i>SPIE Defense + Security 2018 Conference, res.country(233,)</i></p> <p>Citations: N/A</p> <p>DOI: 10.1117/12.2304721</p>	2018
<p>ASIFT based recognition of fixed shape moving objects and tracking via modified particle filters</p> <p><i>Haris Masood Saad Rehman Aimal Khan Wasi Haider Rupert Young Phil Birch Mohammad Alam</i></p> <p><i>Pattern Recognition and Tracking XXIX, res.country(233,)</i></p> <p>Citations: N/A</p> <p>DOI: 10.1117/12.2304699</p>	2018
<p>Range Estimation in Radar using Maximum Likelihood Estimator</p> <p><i>Haleema Sadia Sabahat Sherien Hafsa Iqbal Muhammad Zeeshan Aimal Khan Saad Rehman</i></p> <p><i>20th International Conference of Computer and Information Technology (ICCIT), res.country(19,)</i></p> <p>Citations: N/A</p> <p>DOI: 10.1109/ICCITECHN.2017.8281856</p>	2017
<p>A Study on Uncertainties in Software Project Management in Pakistan</p> <p><i>Sara Tanvir Mamoon Saafdar Hanny Tufail Aimal Khan Muhammad Abbas</i></p> <p><i>International Conference on Engineering, Computing and Information Technology, res.country(157,)</i></p> <p>Citations: N/A</p> <p>DOI: https://www.researchgate.net/publication/330509417_A_study_on_Uncertainties_in_Software_Project_Management_in_Pakistan</p>	2017

Analysis of power optimization in a 2-hop multiple relay network <i>Aimal Khan Volker Kuehn</i> 2012 International ITG Workshop on Smart Antennas (WSA), res.country(57,) Citations: N/A DOI: 10.1109/WSA.2012.6181212	2012
Performance Comparison of different Protocols for a Two-hop Multiple Relay Network <i>Aimal Khan Volker Kuehn</i> 2012 International ITG Workshop on Smart Antennas (WSA), res.country(57,) Citations: N/A DOI: 10.1109/WSA.2012.6181209	2012
Rate Optimization for Incremental Redundancy and Repetition Coding in Relay Networks <i>Aimal Khan Volker Kuehn</i> European Signal Processing Conference, res.country(68,) Citations: N/A DOI: https://ieeexplore.ieee.org/document/7073991	2011
Power Optimization in Adaptive Relay Networks <i>Aimal Khan Volker Kuhn</i> GLOBECOM - IEEE Global Telecommunications Conference, res.country(233,) Citations: N/A DOI: 10.1109/GLOCOM.2010.5683506	2010
Power Vs Relay Selection in Adaptive Relay Networks <i>Aimal Khan Volker K "uhn</i> 2010 7th International Symposium on Wireless Communication Systems, res.country(231,) Citations: N/A DOI: 10.1109/ISWCS.2010.5624285	2010
Optimizing ARQ Strategies in Relay Networks <i>Aimal Khan Volker Kuehn</i> 8th Intl. Symposium on Modeling and Optimization in Mobile, Ad Hoc, and Wireless Networks, res.country(75,) Citations: N/A DOI: https://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=5520222	2010
On the Performance of Adaptive Relaying with ARQ <i>Aimal Khan Volker K "uhn</i> 2010 International ITG Workshop on Smart Antennas (WSA), res.country(57,) Citations: N/A DOI: 10.1109/WSA.2010.5456458	2010
Mutual information based resource allocation in relay networks <i>Aimal Khan Volker Kuhn</i> 8th International ITG Conference on Source and Channel Coding, res.country(57,) Citations: N/A DOI: N/A	2010
Information Combining Based ARQ in Relay Networks <i>Aimal Khan Volker Kiihn Sebastian Vorkoper</i> 2009 European Wireless Conference , res.country(59,) Citations: N/A DOI: 10.1109/EW.2009.5357981	2009