Adnan Ahmed Khan

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About

Dr. Adnan Ahmed Khan is working as Defence Faculty in the Military College of Signals. Dr. Adnan Ahmed Khan has a PhD in Computer Engineering. Dr. Adnan Ahmed Khan has published 62 research articles & conference papers having a citation count of 260, carried out 0 projects and filed 0 intellectual property.

Qualifications

PhD in Computer Engineering UET Taxila , Pakistan	2005 - 2009
MS in Computer Engineering UET Taxila , Pakistan	2003 - 2005
BE in Telecomm Engineering NUST, Islamabad , Pakistan	1990 - 1993

Experience

Defence Faculty	2024- Present
Military College of Signals	
Defence Faculty	2012 - 2012
Military College of Signals	

Research Articles

C2B: A Semantic Source Code Retrieval Model using CodeT5 and Bi-LSTM	2024
Nazia Bibi Ayesha Maqbool Tauseef Ahmad Rana Farkhanda Afzal Adnan Ahmed Khan	
Applied Sciences, Volume 14(13), Article Number 5795	

Impact Factor: 2.500 | Quartile: 1 | Citations: 2 DOI: https://doi.org/10.3390/app14135795

A wideband decoupling method using bezel-coupled loop-type isolator for smartwatch MIMO applications

Babar Aslam Baloch Zeeshan zahid Adnan Ahmed Khan Longyue Qu International Journal of Microwave and Wireless Technologies, Pages 1-11

Impact Factor: $1.090 \mid$ Quartile: $4 \mid$ Citations: 1

DOI: 10.1017/ S1759078722000812

Secure resource management in beyond 5G heterogeneous networks with decoupled access

Humayun Zubair Khan Mudassar Ali Muhammad Naeem Imran Rashid Shahid Mumtaz Adnan Ahmad Khan Ahmad Naeem Akhtar

Ad Hoc Networks, Volume 125, Article Number 102737 Impact Factor: 4.111 | Quartile: 2 | Citations: 20

DOI: 10.1016/j.adhoc.2021.102737

A wideband isolation technique using bezel coupled T-type isolator for smartwatch MIMO applications

Babar Aslam Baloch Longyue Qu Muhammad Zeeshan Zahid Adnan Ahmed Khan

Microwave and Optical Technology Letters, Pages 1-7

Impact Factor: 1.311 | Quartile: 4 | Citations: 1

DOI: 10.1002/mop.33415

Resource allocation for energy efficiency optimization in uplink–downlink decoupled 5G heterogeneous networks

2021

2022

2022

2022

eterogeneous networks

International Journal of Communication System, Pages 1-23, Article Number e4925

Impact Factor: 1.882 | Quartile: 3 | Citations: 16

DOI: https://doi.org/10.1002/dac.4925

Optimality of Linear MIMO Detection for 5G Systems via 1-Opt Local Search

2021

Kiran Khurshid Adnan Ahmed Khan Muhammad Haroon Siddiqui Muhammad Usman Hadi Imran Rashid Muhammad Imran

Journal of Electrical Engineering and Technology, Pages 1-10

Impact Factor: 1.528 | Quartile: 4 | Citations: 10 DOI: https://doi.org/10.1007/s42835-020-00625-0

Efficient hybrid Neumann series based MMSE assisted detection for 5G and beyond massive MIMO

2020

systems

Kiran Khurshid Adnan Ahmed Khan Muhammad Imran Imran Rashid Muhammad Haroon Siddiqui

IET Communications, Volume 14, Issue 22, Pages 4142-4151

Impact Factor: 1.542 | Quartile: 3 | Citations: 6

DOI: 10.1049/iet-com.2020.0670

Dual-Band B-Shaped Antenna Array for Satellite Applications

2020

Muhammad Mateen Hasan Adnan Ahmed Khan Imran Rashid Muzhair Hussain Faroog Ahmed Bhatti

International Journal of Microwave and Wireless Technologies, Pages 1-8

Impact Factor: 1.064 | Quartile: 4

DOI: https://doi.org/10.1017/S1759078720001439[Opens in a new window]

Two element MIMO antenna with frequency reconfigurable characteristics utilizing RF MEMS for 5G applications

2020

Muhammad Mateen Hassan Zeeshan Zahid Adnan Ahmed Khan Imran Rashid Abdul Rauf Moazam Magsood Farooq Ahmed Bhatti

Journal of Electromagnetic Waves and Applications, Volume 34, Issue 9, Pages 1210-1224

Impact Factor: 1.335 | Quartile: 4 | Citations: 35

DOI: 10.1080/09205071.2020.1765883

Detection of Intermediate Spoofing Attack on Global Navigation Satellite System Receiver Through **Slope Based Metrics**

2020

Abdul Malik Khan Adnan Ahmed Khan Muhammad Faisal Khan Abdul Malik Khan Naveed Igbal Muhammad Faisal Khan Attig Ahmad

Journal of Navigation, Pages 1-17

Impact Factor: 1.995 | Quartile: 2 | Citations: 24

DOI: 10.1017/S0373463320000168

Optimal Massive MIMO Detection for 5G Communication Systems via Hybrid n-Bit Heuristic Assisted-

2019

Muhammad Haroon Siddiqui Kiran Khurshid Imran Rashid Adnan Ahmed Khan Khubaib Ahmed

IEEE Access, Volume 7, Pages 73646-173656 Impact Factor: 3.745 | Quartile: 1 | Citations: 11

DOI: 10.1109/ACCESS.2019.2949247

A novel UWB MIMO antenna array with band notch characteristics using parasitic decoupler

Muhammad Mateen Hassan Maryam Rasool Muhammad Umair Asghar Zeeshan Zahid Adnan Ahmed Khan Imran Rashid Abdul Rauf Farooq Ahmed Bhatti Journal of Electromagnetic Waves and Applications, Pages 1-12

Impact Factor: 1.373 | Quartile: 3 | Citations: 50

DOI: 10.1080/09205071.2019.1682063

Big data assisted CRAN enabled 5G SON architecture

2019

Kiran Khurshid Adnan Ahmed Khan Muhammad Haroon Siddiqui Imran Rashid Muhammad Usman Hadi

Journal of ICT Research and Applications, Volume:13, No.2, Pages:93-106

Impact Factor: 0.6 | Quartile: 4

DOI: https://doi.org/10.5614/itbj.ict.res.appl.2019.13.2.1

A wideband loop-type ground radiation antenna using ground mode tuning and optimum impedance level

2019

Mateen Hassan Zeeshan Zahid Adnan Ahmed Khan Moazam Maqsood

Microwave and Optical Technology Letters, Volume 61, Issue 9, Pages 2056-2061

Impact Factor: 0.957 | Quartile: 4 | Citations: 2

DOI: 10.1002/mop.31859

Big Data Assisted CRAN Enabled 5G SON Architecture

2019

Kiran Khurshid Adnan Ahmed Khan Haroon Siddigui Imran Rashid M. Usman Hadi

Impact Factor: 0 Citations: 15 DOI: DOI: 10.5614/itbj.ict.res.appl.2019.13.2.1	
A nonorthogonal cooperative scheme for multiuser CRN using probabilistic interference constraint Ashfaq Ahme Mudassar Ali Muhammad Naeem Muhammad Iqbal Udit Pareek Adnan Ahmed Khan Transactions on Emerging Telecommunications Technologies, Volume: 30 Issue: 5 Article Number: e3568 Impact Factor: 1.594 Quartile: 3 DOI: 10.1002/ett.3568	2019
Incast Mitigation in a Data Center Storage Cluster Through a Dynamic Fair-Share Buffer Policy YAWAR ABBAS BANGASH TAUSEEF RANA HAIDER ABBAS MUHAMMAD ALI IMRAN ADNAN AHMED KHAN IEEE Access, Volume 7, Pages 10718-10733 Impact Factor: 3.745 Quartile: 1 Citations: 2 DOI: 10.1109/ACCESS.2019.2891264	2019
Big Data-9Vs, Challenges and Solutions Kiran Khurshid Adnan Ahmed Khan Haroon Siddique Imran Rashid Technical Journal, University of Engineering and Technology (UET) Taxila, Volume 23, No. 3, Pages 28-34 Impact Factor: - DOI: NA	2018
MT-SECURER: multi-factors trust for secure and reliable routing in MANETs Imran Shafi Zakir Ullah Muhammad Hasan Islam Adnan Ahmed Khan International Journal of Adhoc and Ubiquitous Computing, Volume 28, Issue 3, Pages 131-147 Impact Factor: 0.56 Quartile: 4 DOI: 10.1504/IJAHUC.2016.10001915	2018
Filtering Dishonest Trust Recommendations in Trust Management Systems in Mobile Ad Hoc Networks Muhammad Hasan Islam Zakir Ullah Adnan Ahmed Khan Sohail Sarwar International Journal of Communication Networks and Information Security (IJCNIS), Volume 8, No. 1, Pages 18-30 Impact Factor: - DOI: https://www.ijcnis.org/index.php/ijcnis/article/view/1568/179	2016
Capacity Dimensioning of HSDPA Urban Network Awais Saeed Adnan Ahmed Khan Syed Ismail Shah Shariq Yasin International Journal of Communication Networks and Information Security, Volume 6, Issue 2, Pages 148-161 Impact Factor: - DOI: 10.17762/ijcnis.v6i2.651	2014
Selection of VoIP CODECs for Different Networks based on QoS Analysis Imran Rashid Adnan Ahmed Khan Malik Ahsan Ali International Journal of Computer Applications, Volume 84, No 5, Pages 38-44 Impact Factor: - DOI: 10.5120/14575-2702	2013
Performance Comparison of Adaptive Power Control in UMTS for Indoor Propagation Adnan Ahmed Khan H. Zahra S. Muzahir Abbas K. Shehzad M. Aurangzeb Khan International Journal of Future Generation Communication and Networking, Volume 5, No. 3, Pages 105-116 Impact Factor: - DOI: N/A	2012
Analysis of Codebook Based Channel Feedback Techniques for MIMO-OFDM Systems Adnan Ahmed Khan Ahmed Farhan Hanif Muhammad Rehan Khalid International Journal of Information and Communication Engineering, Vol:5, No:12, Pages:05 Impact Factor: N/A DOI: 10.5281/zenodo.1072905	2011
Application of Heuristic (1-Opt Local Search) and Metaheuristic (Ant Colony Optimization) Algorithms for Symbol Detection in MIMO Systems Adnan Ahmed Khan Kiran Khurshid Safwat Irteza S. I. Shah Communications and Network, VolL3, No.4, Article ID:8468, Pages: 200-209	2011

Journal of ICT Research and Applications, Volume: 13, Issue: 2, Pages: 93-106

Impact Factor: N/A DOI: 10.4236/cn.2011.34023 Passive Source Localization in a Randomly Distributed Wireless Sensor Networks 2011 Adnan Ahmed Khan Muhammad Tabish Niaz Imran Shafi International Journal of Computer Applications, Volume 24, No.6, Pages 1-6 Impact Factor: -DOI: 10.5120/2963-3955 Validity guided fuzzy clustering evaluation for neural network based time-frequency reassignment 2010 Imran Shafi Jamil Ahmad Syed Ismail Shah Ataul Aziz Ikram Adnan Ahmed Khan Sajid Bashir EURASIP Journal on Advances in Signal Processing, Volume 2010, Article ID 636858, 14 pages Impact Factor: 1.053 | Quartile: 2 | Citations: 10 DOI: 10.1155/2010/636858 High-resolution time-frequency methods performance analysis 2010 Imran Shafi Adnan Ahmed Khan Sajid Bashir Faisal Mahmood Kashif Jamil Ahmad Syed Ismail Shah Ataul Aziz Ikram EURASIP Journal on Advances in Signal Processing, Volume 2010, Article ID 806043, 7 pages Impact Factor: 1.053 | Quartile: 2 | Citations: 9 DOI: 10.1155/2010/806043 2010 An application of univariate marginal distribution algorithm in MIMO communication systems Adnan Ahmed Khan Sajid Bashir Muhammad Naeem Syed Ismail Shah International Journal of Communication Systems, Volume 23, Issue 1, Pages 109-124 Impact Factor: 0.229 | Quartile: 4 | Citations: 10 DOI: 10.1002/dac.1051 Meta-Heuristics for Symbol Detection in a Spatial Multiplexing System 2008 Adnan Ahmed Khan Muhammad Naeem Syed Ismail Shah NUST Journal of Engineering Sciences, Volume 1, No.1, Pages 117-126 Impact Factor: -DOI: -2008 Symbol detection in spatial multiplexing system using particleswarm optimization meta-heuristics Adnan Ahmed Khan Sajid Bashir Muhammad Naeem Syed Ismail Shah Xiaodong Li International Journal of Communication Systems, Volume 21, Issue 12, Pages 1239-1257 Impact Factor: 0.394 | Quartile: 3 | Citations: 17 DOI: https://doi.org/10.1002/dac.949 **Conference Proceedings** Self-Decoupled Dual Band PIFA for Wi-Fi 6E Smartwatch MIMO Applications 2022 Babar Aslam Zeeshan Zahid Adnan Khan Proceedings of 2022 19th International Bhurban Conference on Applied Sciences and Technology, IBCAST 2022, res.country(282,) Citations: N/A DOI: 10.1109/IBCAST54850.2022.9990453 2020 Artificial Intelligence based 6G Intelligent IOT: Unfolding an Analytical Concept for Future Hybrid **Communication Systems** Adnan Ahmed Khan Kiran Khurshid Imran Rashid Muhammad Haroon Siddigu 2020 The 12th International Conference on Future Computer and Communications, res.country(48,) Citations: N/A DOI: DOI: 10.18178/wcse.2020.02.021 RF MEMS capacitive switch with high isolation for 5G communication 2019 Adnan Ahmed Khan Saad Mansoor 2019 International Conference on Communication Technologies, ComTech 2019, res.country(177,) Citations: N/A DOI: 10.1109/COMTECH.2019.8737793 5G Waveform Competition: Performance Comparison and Analysis of OFDM and FBMC in Slow Fading 2019 and Fast Fading Channels Muhammad Imran Aamina Hassan Adnan Ahmed Khan FICC: Future of Information and Communication Conference, res.country(233,) Citations: N/A **DOI:** 10.1007/978-3-030-12388-8_4

New technique: Surface modeling of dual polarized RADARs antenna structure for cross polarization reduction Adnan Ahmed Khan Zar Khitab Farooq Ahmed Bhatti Adil Masood Siddiqui Imran Rashid 2017 IEEE 6th Global Conference on Consumer Electronics (GCCE), res.country(113,) Citations: N/A DOI: 10.1109/GCCE.2017.8229242	2017
Binary ant colony algorithm for symbol detection in a spatial multiplexing system Adnan Khan Sajid Bashir Muhammad Naeem Syed Ismail Shah Asrar Sheikh International Conference on Unconventional Computation, res.country(233,) Citations: N/A DOI: 10.1007/978-3-540-73554-0_12	2017
Performance Analysis of Wavelet Based Blind Detection and Hop Time Estimation Algorithm for Frequency Hopping Signals in HF Band Adnan Ahmed Khan Imran Taqueer Saira Anwar Muhammad Imran Estimation Algorithm for Frequency Hopping Signals in HF Band, PIMRC'16 (Personal, Indoor and Mobile Radio Communication, res.country(177,) Citations: N/A DOI: Nil	2016
Issues with trust management and trust based secure routing in MANET Zakir Ullah Muhammad Hasan Islam Adnan Ahmed Khan 13th International Bhurban Conference on Applied Sciences and Technology (IBCAST), res.country(177,) Citations: N/A DOI: 10.1109/IBCAST.2016.7429910	2016
Enhanced multi user detection technique of overloaded MIMO systems using Network Coding based HARQ Adnan Ahmed Khan Amna Qayyum Khawaja Tauseef Tasneem 2014, 8th International Conference on Signal Processing and Communication Systems, ICSPCS 2014 - Proceedings, res.country(13,) Citations: N/A DOI: 10.1109/ICSPCS.2014.7021117	2015
Performance analysis of a novel high impedance surface for microstrip-line small patch antenna for mobile applications Adnan Ahmed Khan M.I. Khattak F. Ahmad A.B. Qazi The 6th International Conference on Emerging Ubiquitous Systems and Pervasive Networks, res.country(233,) Citations: N/A DOI: 10.1016/j.procs.2015.08.379	2015
Multiuser detection of co-channel systems using combination of basic network coding and HARQ Adnan Ahmed Khan Amna Qayyum Muhammad Ali Imran 2015 IEEE 81st Vehicular Technology Conference (VTC Spring), res.country(233,) Citations: N/A DOI: 10.1109/VTCSpring.2015.7145943	2015
Adaptive antenna grouping for capacity maximization in correlated MIMO channels Adnan Ahmed Khan Waqas Ahmad Naveed Iqbal Christian Schneider 2014 IEEE International Conference on Communication, Networks and Satellite (COMNETSAT), res.country(100,) Citations: N/A DOI: 10.1109/COMNETSAT.2014.7050516	2014
Detection of Dishonest Trust Recommendations in Mobile Ad Hoc Networks Zakirullah M. Hasan Islam Adnan Ahmed Khan Fifth International Conference on Computing, Communications and Networking Technologies (ICCCNT), res.country(48,) Citations: N/A DOI: 10.1109/ICCCNT.2014.6962994	2014
Performance analysis of energy detection spectrum sensing using MIMO-OFDM VBLAST test bed Adnan Ahmed Khan Noman Akbar Faizan Qasim Butt Muhammad Salman Saleem Sadia Riffat Raja Iqbal 2013 6th Joint IFIP Wireless and Mobile Networking Conference, WMNC 2013, res.country(2,) Citations: N/A DOI: 10.1109/WMNC.2013.6549033	2013
Turbo-coded HARQ scheme in multi-hop cooperative wireless networks	2013

Adnan Ahmed Khan Ibrahim Khalil 6th Joint IFIP Wireless and Mobile Networking Conference (WMNC), res.country(2,) Citations: N/A DOI: 10.1109/WMNC.2013.6549042	
Analysis of Codebook Based Channel Feedback Techniques for MIMO-OFDM Systems Adnan Ahmed Khan Muhammad Rehan Khalid Ahmed Farhan Hanif International Conference on Wireless Communications and Mobile Computing, res.country(217,) Citations: N/A DOI: Nil	2011
Turbo-coded HARQ with Switchable Relaying Mechanism in single hop cooperative wireless system Adnan Ahmed Khan Ibrahim Khalil Zohaib-Ur-Rehman 2011 9th International Conference on Frontiers of Information Technology, FIT 2011, res.country(177,) Citations: N/A DOI: 10.1109/FIT.2011.54	2011
Optimal relay station placement in cooperative networks using particle swarm Adnan Ahmed Khan Samreen Umer 13th annual Genetic and Evolutionary Computation Conference, res.country(233,) Citations: N/A DOI: https://doi.org/10.1145/2001858.2001865	2011
Performance of real time cooperative MIMO using an SDR platform Adnan Ahmed Khan Hassaan Ajaz Hassaan Ajaz Omer Ihsan Usman Javed Moaaz Ali Hafeez Safwat Irteza 2011 IEEE Symposium on Computers and Informatics, res.country(157,) Citations: N/A DOI: 10.1109/ISCI.2011.5958956	2011
Performance of real time cooperative MIMO using an SDR platform Adnan Ahmed Khan Hassaan Ajaz Omer Ihsan Usman Javed Safwat Irteza ISCI 2011 - 2011 IEEE Symposium on Computers and Informatics, res.country(157,) Citations: N/A DOI: 10.1109/ISCI.2011.5958956	2011
Comparative Study of Self-Encoded Spread Spectrum and PN Coded Spread Spectrum in Cooperative Communicatio Adnan Ahmed Khan Zohaib-Ur-Rehman Spectrum in Cooperative Communication, res.country(48,) Citations: N/A	2011
Application of ant colony optimization based algorithm in MIMO detection Adnan Ahmed Khan Safwat Irteza Kiran Khurshid IEEE Congress on Evolutionary Computing, res.country(68,) Citations: 17	2010
DOI: https://doi.org/10.1109/CEC.2010.5586173 Hostname addresing in heterogeneous mobile ad hoc networks Muhammad Umar Farooq Shoab Ahmad Khan Syed Ayad Hasan Adnan Ahmed Khan 3rd International Conference on Computer Science and Information Technology, res.country(48,) Citations: N/A DOI: 10.1109/ICCSIT.2010.5563784	2010
Efficient detection of space time block codes in time-selective channels via adaptive sphere decoder Adnan Ahmed Khan I. Safwat R. Kashif 2009 International Conference on Emerging Technologies, ICET 2009, res.country(177,) Citations: N/A DOI: 10.1109/ICET.2009.5353155	2009
An improved ZF-ML decoder for space time block codes over time selective channels Adnan Ahmed Khan Safwat Irteza Atiq A Kashif R 2009 IEEE Symposium on Industrial Electronics and Applications, ISIEA 2009 - Proceedings, res.country(157,)	2009

Citations: N/A

DOI: 10.1109/ISIEA.2009.5356461

Performance analysis of detection schemes in MIMO spatially correlated channels 2009 Adnan Ahmed Khan Safwat Irteza Momin Shahab Syed Mohammad Shah 2009 IEEE Symposium on Industrial Electronics and Applications, ISIEA 2009 - Proceedings, res.country(157,) Citations: N/A DOI: 10.1109/ISIEA.2009.5356303 Simplified maximum likelihood detection for Hi orthogonal space-time block coded system 2009 Adnan Ahmed Khan Khawaja Tauseef Tasneem Syed Ismail Shah 2009 2nd International Conference on Computer, Control and Communication, IC4 2009, res.country(177,) Citations: N/A DOI: 10.1109/IC4.2009.4909258 A particle swarm algorithm for symbols detection in wideband spatial multiplexing systems 2007 Adnan Ahmed Khan Muhammad Naeem Syed Ismail Shah 9th annual conference on Genetic and evolutionary computation, res.country(177,) Citations: N/A DOI: 10.1145/1276958.1276968 2006 Heuristics assisted detection in high speed wireless communication systems Adnan Ahmed Khan Sajid Bashir Muhammad Naeem Syed Ismail Shah 10th IEEE International Multitopic Conference 2006, INMIC, res.country(177,) Citations: N/A DOI: 10.1109/INMIC.2006.358125 **Book Chapters** Swarm Intelligence Based MIMO DetectionTechniques in Wireless Systems 2018 Adnan Ahmed Khan Zakir Ullah

In: Swarm Intelligence, Chapter: 05, Volume 3, Pages:109-137

Citations: N/A

DOI: 10.1049/PBCE119H_ch