Saad Bin Qaisar

Associate Professor

School of Electrical Engineering and Computer Science

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LinkedIn:



About

Dr. Saad Bin Qaisar is working as Associate Professor in the School of Electrical Engineering and Computer Science. Dr. Saad Bin Qaisar has a PhD in Electrical Engineering (Communications). Dr. Saad Bin Qaisar has published 47 research articles & conference papers having a citation count of 2075, carried out 3 projects and filed 1 intellectual property.

Qualifications

PhD in Electrical Engineering (Communications) Michigan State University , United States	2004 - 2009
MS in Electrical Engineering Michigan State University , United States	2003 - 2005
BS in Electrical Engineering NUST, Islamabad , Pakistan	1999 - 2003
Experience	
Associate Professor	2020- Present
School of Electrical Engineering and Computer Science	
Associate Professor	2015 - 2020
School of Electrical Engineering and Computer Science	
Associate Professor	2015 - 2015
School of Electrical Engineering and Computer Science	
Assistant Professor	2012 - 2015
School of Electrical Engineering and Computer Science	
Assistant Professor	2009 - 2012
School of Electrical Engineering and Computer Science	
Associate Professor	2009 - 2022
NUST , NUST H12	
Awards	
NUST Best Researcher 2012	2015
Professional Memberships	
IEEE	Since 2004

Research Projects

National Projects	
Establishment of Core Communication and Networks Research Funding Agency: NUST	2009
Amount: PKR 1,647,000.00	
Status: Completed	
Software Defined Wide Area Network Research (PPCR)	2018
Funding Agency: HEC	
Amount: PKR 370,000.00 Status: Approved_inprocess	
Automated Tele-Micromanipulator Cell Injection System	2016
Funding Agency: IGNITE	
Amount: PKR 39,997,000.00	
Status: Completed	
International Projects	
Research Articles	
Mode selection, caching and physical layer security for fog networks	2022
Rabeea Basir Naveed Ahmed Chughtai Saad Bin Qaisar Mudassar Ali Anas Hashmi Bulletin of the Polish Academy of Sciences: Technical Sciences, Volume 70, Issue 5, Article Number e142652	
Impact Factor: 1.515 Quartile: 3 Citations: 3	
DOI: 10.24425/bpasts.2022.142652	
Energy efficient resource allocation in cache-enabled fog networks	2021
Rabeea Basir Saad Bin Qaisar Mudassar Ali Muhammad Naeem Alagan Anpalagan	
Transactions on Emerging Telecommunication Technologies, Article Number e4343, Pages 1-16	
Impact Factor: 3.310 Quartile: 2 Citations: 3 DOI: http://doi.org/10.1002/ett.4343	
Cloudlet Selection in Cache-Enabled Fog Networks for Latency Sensitive IoT Applications	2021
Rabeea Basir Saad Bin Qaisar Mudassar Ali Muhammad Naeem	
IEEE Access, Volume 9, Pages 93224-93236	
Impact Factor: 3.476 Quartile: 2 Citations: 9 DOI: 10.1109/ACCESS.2021.3092819	
Client-Centric Access Device Selection for Heterogeneous QoS Requirements in Beyond 5G IoT	2020
Networks Michael Cond Rin Coinn havit than	
Muhammad Asad Saad Bin Qaisar basit khan IEEE Access , Volume 8, Pages 219820-219836	
Impact Factor: 3.367 Quartile: 2 Citations: 15	
DOI: 10.1109/ACCESS.2020.3042522	
Beyond 5G: Hybrid End-to-End Quality of Service Provisioning in Heterogeneous IoT Networks	2020
Muhammad Asad Saad Qaisar Mudassar Ali Basit Khan	
IEEE Access, Volume 8, Pages 192320-192338 Impact Factor: 3.367 Quartile: 2 Citations: 30	
DOI: 10.1109/ACCESS.2020.3032704	
Combinatorial resource allocation in D2D assisted heterogeneous relay networks	2020
Saad Bin Qaisar Mudassar Ali Muhammad Naeem Shahid Mumtaz Joel J.P.C. Rodrigues	
Future Generation Computer Systems, Volume 107, Pages 956-964 Impact Factor: 7.187 Quartile: 1 Citations: 11	
DOI: 10.1016/j.future.2017.08.012	
Placement Optimization for Renewable Energy Sources: Ontology, Tools and Wake Models	2020
Mudassar Ali Saad Bin Qaisar Mudassar Ali Muhammad Yousaf Khan Muhammad Naeem Chrysostomos Chrysostomou Muhammad Iqbal	
IEEE Access, Volume: 8, Pages 72781-72800	
Impact Factor: 3.367 Quartile: 2 Citations: 11 DOI: DOI: 10.1109/ACCESS.2020.2984901	

For Commuting English Industrial Internat of Things Ctate of the Art and Become Challenges	2010
Fog Computing Enabling Industrial Internet of Things: State-of-the-Art and Research Challenges	2019
Saad Bin Qaisar Rabeea Basir Mudassar Ali Monther AlDhwairi Muhammad Ikram Ashraf Aamir Mahmood Mikael Gidlund Sensors , Volume 19, Issue 21, Article 4807	
Impact Factor: 3.275 Quartile: 1 Citations: 112 DOI: 10.3390/s19214807	
Interconnecting Networks with Optimized Service Provisioning	2019
Basit Khan Saad Bin Qaisar Mudassar Ali Muhammad Naeem Marc Bruyere Joel J. P. C. Rodrigues	
Telecommunication System, -	
Impact Factor: 1.734 Quartile: 3 Citations: 7 DOI: 10.1007/s11235-019-00606-3	
Node Selection and Utility Maximization for Mobile Edge Computing Driven IoT	2019
Mudassar Ali Nida Riaz Saad Qaisar	
Transactions on Emerging Telecommunications Technologies, Article Number e3704	
Impact Factor: 1.594 Quartile: 3 Citations: 9 DOI: 10.1002/ett.3704	
Fog-Assisted SDN Controlled Framework for Enduring Anomaly Detection in an IoT Network	2018
Qaisar Shafi Saad bin Qaisar Ian Welch Abdul Basit Abigail Koay	2010
IEEE Access, NULL	
Impact Factor: 4.098 Quartile: 1	
DOI: https://www.researchgate.net/publication/329330056_Fog- Assisted_SDN_Controlled_Framework_for_Enduring_Anomaly_Detection_in_an_loT_Network	
	0040
Resource allocation for licensed and unlicensed spectrum in 5G heterogeneous networks Mudassar Ali Saad Bin Qaisar Muhammad Naeem Joel J. P. C. Rodrigues Farhan Qamar	2018
Transactions on Emerging Telecommunications Technologies, Volume 29, Issue 10, Article Number e3299	
Impact Factor: 1.258 Quartile: 4 Citations: 12	
DOI: https://onlinelibrary.wiley.com/doi/full/10.1002/ett.3299	
Joint Cloudlet Selection and Latency Minimization in Fog Networks	2018
Mudassar Ali Nida Riaz Muhammad Ikram Ashraf Saad Bin Qaisar Muhammad Naeem	
IEEE Transactions on Industrial Informatics , NULL Impact Factor: 7.377 Quartile: 1	
DOI: https://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=8345659	
Energy Efficient Resource Allocation for Energy Harvesting Aided H-CRAN	2018
Mudassar Ali Saad Qaisar Muhammad Imran Muhammad Naeem Farhan Qamar Naveed Ahmed Chugtai	
IEEE Access, Volume 6, Pages 43990-44001	
Impact Factor: 4.098 Quartile: 1 Citations: 29 DOI: 10.1109/ACCESS.2018.2862920	
SimpliMote: A Wireless Sensor Network Monitoring Platform for Oil and Gas Pipelines	2018
Salman Ali Adnan Ashraf Muhammad Kamran Afridi Husnain Saeed Sidra Rashid Saad Bin Qaisar	
IEEE Systems Journal, Volume 12, Issue 1, Pages 778-789	
Impact Factor: 4.463 Quartile: 1 Citations: 60 DOI: 10.1109/JSYST.2016.2597171	
A WSN for Monitoring and Event Reporting in Underground Mine Environments	2018
Umar Ibrahim Minhas Ijaz Haider Naqvi Saad Bin Qaisar Kamran Ali Saleem Shahid Muhammad Awais Aslam	2010
IEEE Systems Journal, NULL	
Impact Factor: 4.463 Quartile: 1	
DOI: https://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=7827994	
Classification and Legality Analysis of Bowling Action in the Game of Cricket Saad Bin Qaisar Muhammad Salman Ali Mustafa Qamar	2017
Data Mining and Knowledge Discovery, Volume 31, Issue 6, Pages 1706-1734, Special Issue SI	
Impact Factor: 2.481 Quartile: 2 Citations: 20	
DOI : 10.1007/s10618-017-0511-4	
Smart heterogeneous networks: a 5G paradigm	2017
Saad Bin Qaisar Mudassar Ali Shahid Mumtaz Muhammad Naeem	
Telecommunication Systems, Volume: 66 Issue: 2 Pages: 311-330 Impact Factor: 1.527 Quartile: 3 Citations: 19	
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Impact Factor: 0.701 | Quartile: 4 DOI: 10.1007/s11277-015-2711-9

2017 Joint User Association, Power Allocation, and Throughput Maximization in 5G H-CRAN Networks Saad Bin Qaisar Mudassar Ali Quratulain Rabbani Muhammad Naeem Farhan Qamar IEEE Transactions on Vehicular Technology, Volume 66, Issue 10, Pages 9254-9262 Impact Factor: 4.432 | Quartile: 1 | Citations: 46 DOI: 10.1109/TVT.2017.2715229 SDN Orchestration for Next Generation Inter-Networking: A Multipath Forwarding Approach 2017 Saad Bin Qaisar Abdul Basit Syed Hamid Rasool Mudassar Ali IEEE Access, Volume 5, Pages 13077-13089 Impact Factor: 3.557 | Quartile: 1 | Citations: 17 DOI: 10.1109/ACCESS.2017.2683943 A Performance Simulation Tool for the Analysis of Data Gathering in Both Terrestrial and Underwater 2017 Sensor Networks Saad Bin Qaisar Mukhtar Ghaleb Emad Felemban Shamala Subramaniam Adil A. Sheikh IEEE Access, Volume 5, Pages 4190-4208 Impact Factor: 3.557 | Quartile: 1 | Citations: 17 DOI: 10.1109/ACCESS.2017.2684539 Internet of Things (IoT) in 5G Wireless Communications 2016 Waleed Ejaz Alagan Anpalagan Muhammad Ali Imran Minho Jo Muhammad Naeem Saad Bin Qaiser Wei Wang IEEE Access, Volume 4, Pages 10310-10314 Impact Factor: 3.244 | Quartile: 1 | Citations: 151 DOI: DOI:10.1109/ACCESS.2016.2646120 Joint Admission Control, Mode Selection and Power Allocation in D2D Communication Systems 2016 Muhammad Azam Mushtaq Ahmad Muhammad Naeem Muhammad Iqbal Ahmed Shaharyar Khwaja Alagan Anpalagan Saad Qaisar IEEE Transactions on Vehicular Technology, Volume 65, Issue 9, Pages 7322-7333 Impact Factor: 4.066 | Quartile: 1 | Citations: 48 DOI: 10.1109/TVT.2015.2487220 2016 Energy Efficient Resource Allocation in D2D-Assisted Heterogeneous Networks with Relays MUDASSAR ALI SAAD QAISAR MUHAMMAD NAEEM SHAHID MUMTAZ IEEE Access, Volume 4, Pages 4902-4911 Impact Factor: 3.244 | Quartile: 1 DOI: 0.1109/ACCESS.2016.2598736 A compendium of optimization objectives, constraints, tools and algorithms for energy management in 2016 microarids Saad Bin Qaisar Aftab Ahmad Khan Muhammad Naeem Muhammad Igbal Alagan Anpalagan Renewable & Sustainable Energy Reviews, Volume 58, Pages 1664-1683 Impact Factor: 8.050 | Quartile: 1 | Citations: 229 DOI: 10.1016/j.rser.2015.12.259 RF Path and Absorption Loss Estimation for Underwater Wireless Sensor Networks in Different Water 2016 **Environments** Umair Mujtaba Qureshi Faisal Karim Shaikh Zuneera Aziz Syed M. Zafi S. Shah Adil A. Sheikh Emad Felemban Saad Bin Qaisar Sensors, Volume 16, Issue 6 Impact Factor: 2.677 | Quartile: 1 | Citations: 120 DOI: 10.3390/s16060890 **Underwater Sensor Network Applications: A Comprehensive Survey** 2015 Saad Bin Qaisar Emad Felemban Faisal Karim Shaikh Umair Mujtaba Qureshi Adil A. Sheikh International Journal of Distributed Sensor Networks, Article Number 896832 Impact Factor: 0.906 | Quartile: 3 | Citations: 369 DOI: 10.1155/2015/896832 2015 Duality Between the Improved Rate Regions of Gaussian Multiple Access and Broadcast Channel for **Discrete Constellations** Saad Bin Qaisar Iram Abdur Rehman Rizwan Ghaffar Wireless Personal Communications, Volume 84, Issue 4, Pages 2397-2415

One-Class Support Vector Machines: Analysis of Outlier Detection for Wireless Sensor Networks in Harsh Environments Saad Bin Qaisar Nauman Shahid Ijaz Haider Naqvi Artificial Intelligence Review, Volume 43, Issue 4, Pages 515-563 Impact Factor: 1.731 Quartile: 2 Citations: 60	2015
DOI: 10.1007/s10462-013-9395-x	
Network Challenges for Cyber Physical Systems with Tiny Wireless Devices: A Case Study on Reliable Pipeline Condition Monitoring Saad Bin Qaisar Salman Ali Husnain Saeed Muhammad Farhan Khan Muhammad Naeem Alagan Anpalagan Sensors, Volume 15, Issue 4, Pages 7172-7205 Impact Factor: 2.033 Quartile: 1 Citations: 105 DOI: 10.3390/s150407172	2015
Characteristics and classification of outlier detection techniques for wireless sensor networks in harsh	2015
environments: a survey Saad Bin Qaisar Nauman Shahid Ijaz Haider Naqvi Artificial Intelligence Review, Volume 43, Issue 2, Pages 193-228 Impact Factor: 1.731 Quartile: 2 Citations: 84 DOI: 10.1007/s10462-012-9370-y	
A Survey on Current Underwater Acoustic Sensor Network Applications Mohsin Murad Adil A. Sheikh Muhammad Asif Manzoor Emad Felemban Saad Bin Qaisar International Journal of Computer Theory and Engineering, Volume 7(1), Pages 51-56 Impact Factor: -	2015
DOI: DOI:10.7763/IJCTE.2015.V7.929	
Detection and self-healing of cluster breakages in mines and tunnels: an empirical investigation Saad Bin Qaisar Muhammad Yousaf Khan Muhammad Naeem Awais Aslam Saleem Shahid ijaz Naqvi Sensors Review, Volume 35, Issue 3, Pages 263-273	2015
Impact Factor: 0.898 Quartile: 3 Citations: 4 DOI: 10.1108/SR-08-2014-0684	
SVM Based Event Detection and Identification: Exploiting Temporal Attribute Correlations Using SensGru Saad Bin Qaisar Nauman Shahid Ijaz Haider Naqvi Mathematical Problems in Engineering, Article Number 259508 Impact Factor: 0.762 Quartile: 3 DOI: 10.1155/2014/259508	2014
Dimensioning of linear and hierarchical wireless sensor networks for infrastructure monitoring with	2014
enhanced reliability Saad Bin Qaisar Salman Ali Emad A. Felemban KSII Transactions on Internet and Information Systems, Volume 8, Issue 9, Pages 3034-3055 Impact Factor: 0.561 Quartile: 4 Citations: 2 DOI: 10.3837/tiis.2014.09.005	
A Method for Distributed Pipeline Burst and Leakage Detection in Wireless Sensor Networks Using	2014
Transform Analysis Saad Bin Qaisar Sidra Rashid Husnain Saeed Emad Felemban International Journal of Distributed Sensor Networks, Article Number 939657 Impact Factor: 0.665 Quartile: 4 Citations: 47 DOI: https://journals.sagepub.com/doi/abs/10.1155/2014/939657	
A hidden Markov model for detection and classification of arm action in Cricket Saad Bin Qaisar SAHAR IMTIAZ FATMA FARUQ AMNA JAMAL WAFA IQBAL PAUL GLAZIER SUNGYOUNG LEE Journal of Mobile Multimedia, Volume 9, No.1&2 Impact Factor: 0	2013
DOI: 10.5555/2600433.2600443	0040
Compressive Sensing: From Theory to Applications, a Survey Saad Bin Qaisar Rana Muhammad Bilal Wafa Iqbal Muqaddas Naureen Sungyoung Lee Journal of Communication and Network, Volume 15, Issue 5, Pages 443-456 Impact Factor: 0.747 Quartile: 3 Citations: 405 DOI: 10.1109/JCN.2013.000083	2013

Saad Bin Qaisar Mehwish Nasim Sungyoung Lee Sensors, Volume 12, Issue 1, Pages 92-114 Impact Factor: 1.953 | Quartile: 1 | Citations: 17

DOI: 10.3390/s120100092

Conference Proceedings

Deep Reinforcement Learning based Resource Optimization in HCRAN

2025

Naveed Ahmad Chughtai Muhammad Imran Mudassar Ali Saad Bin Qaisar

2025 International Conference on Communication Technologies, ComTech 2025, res.country(177.)

Citations: N/A

DOI: 10.1109/ComTech65062.2025.11034425

Latency-Aware Resource Allocation in Green Fog Networks for Industrial IoT Applications

2020

Rabeea Basir Saad Qaisar Mudassar Ali Muhammad Naeem Kishor Chandra Joshi Jonathan Rodriguez Rabeea Basir Saad Qaisar Mudassar Ali Muhammad Naeem Kishor Chandra Joshi Jonathan Rodriguez

IEEE International Conference on Communications Workshops (ICC Workshops), res.country(101,)

Citations: N/A

DOI: https://2020.ieee-icc-virtual.org/presentation/workshop/latency-aware-resource-allocation-green-fog-networks-industrial-iot

Resource Allocation and Throughput Optimization for IoT Real-Time Applications

2020

Rabeea Basir Saad Bin Qaisar Haris Pervaiz Mudassar Ali Muhammad Naeem Muhammad Ali Imran Rabeea Basir Saad Bin Qaisar Haris Pervaiz Mudassar Ali Muhammad Naeem Muhammad Ali Imran

IEEE 91st Vehicular Technology Conference (VTC2020-Spring), res.country(20,)

Citations: N/A

DOI: https://doi.org/10.1109/VTC2020-Spring48590.2020.9129613

Energy Efficiency Maximization in Green Energy Aided Heterogeneous Cloud Radio Access Networks

2020

Muhammad Imran Naveed Ahmad Chughtai Mudassar Ali Saad Qaisar Muhammad Naeem Muhammad Imran Naveed Ahmad Chughtai Mudassar Ali Saad Qaisar Muhammad Naeem Muhammad Imran Naveed Ahmad Chughtai Mudassar Ali Saad Qaisar Muhammad Naeem

IEEE 91st Vehicular Technology Conference (VTC2020-Spring), res.country(20,)

Citations: N/A

DOI: 10.1109/VTC2020-Spring48590.2020.9128743

Evaluating HTTP Adaptive Streaming Algorithms Under Parallel TCP Connections

2019

Saad Qaisar Syed Hamid Rasool Abdul Basit

19th International Conference on Computational Science and Applications, res.country(190,)

Citations: N/A

DOI: 10.1007/978-3-030-24305-0_44

Electronic Design of a Semi-Automated Micromanipulator Cell Injection System

2018

A. Hameed N. Kamal Saad Bin Qaiser Osman Hasan N. Jalal

2018 12th International Symposium on Medical Information and Communication Technology (ISMICT), res.country(13,)

Citations: N/A

DOI: 10.1109/ISMICT.2018.8573730

Joint User Association and Power Allocation for Licensed and Unlicensed Spectrum in 5G Networks

2017

SAAD BIN QAISER

IEEE Globecom, res.country(197,)

Citations: N/A

DOI: 10.1109/GLOCOM.2017.8254050

Book Chapters

Performance Analysis of UAV-Enabled Disaster Recovery Networks

2021

Rabeea Basir Mudassar Ali Naveed Ahmad Chughtai Saad Bin Qaisar Muhammad Ali Imran Anas Hashmi

In: Book on Autonomous Airborne Wireless Networks, Chapter 9, Pages 157-194

Citations: 4

DOI: https://doi.org/10.1002/9781119751717.ch9

Editorial Activities

Edited Journal Issue / Proceeding / Book Impact Factor: 4.098	2019
Edited Journal Issue / Proceeding / Book	2019
Edited Journal Issue / Proceeding / Book	2019
Edited Journal Issue / Proceeding / Book	2019
Edited Journal Issue / Proceeding / Book	2019
Reviewed Papers for Journals	2019
Edited Journal Issue / Proceeding / Book	2018
Edited Journal Issue / Proceeding / Book	2018
Edited Journal Issue / Proceeding / Book	2018
Edited Journal Issue / Proceeding / Book	2018
Edited Journal Issue / Proceeding / Book	2018
Edited Journal Issue / Proceeding / Book	2018
Edited Journal Issue / Proceeding / Book	2017
Edited Journal Issue / Proceeding / Book Impact Factor: 3.55	
Reviewed Papers for Journals Impact Factor: 3.9	2017
Editor in Chief of Journal	2017
Impact Factor: 3.55	2017
Editor in Chief of Journal Impact Factor: 4.098	
Edited Journal Issue / Proceeding / Book	1970

Intellectual Property

Copyrights

Patents

Micromanipulator Cell Injection System

Status: Filed

Industrial Designs

Trademarks

2019