

## Personal Information

## Junaid Qadir

Born on 09.03.1993 in Nowshera  
Pakistan.

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## Research Experience

The University of Valladolid, Valladolid, Spain.

### Department of Signal Theory, and Communications, and Telematics Engineering

- Collaborating with the foreigner professors
- Working on breast cancer detection using Machine Learning

11.2016 – 06.2019

Quaid-i-Azam University, Islamabad/Pakistan

### Research Assistant at the Department of Electronics

- Examined of various routing-protocols in UWSNs
- Proposed energy-efficient routing scheme for UWSNs
- Designed cooperative routing techniques for UWSNs
- Designed protocols for mission-critical applications in UWSNs
- Proposed robust algorithms for packets reliability
- Analyzed the state-of-the-art of mobile edge computing
- Investigate merit(s) and demerit(s) and presented bibliometric overview which is helpful for scientists and researchers
- Searched open challenges in research and presented the future direction
- Project work for image classification and defogging
- Programming in MATLAB

01.2016 – 02.2016

Avionics Production Factory, Pakistan Aeronautical Complex, Kamra/Pakistan  
Intern

- Examined of electronic components used in the JF-17 Thunder aircraft and KLJ-7 radar
- Worked in the production and testing line of electronics embedded systems

07.2013 – 09.2015

University of Peshawar, Peshawar/Pakistan

### Department of Electronics

- Presented an overview of the power control schemes in Wireless sensor networks (WSNs)
- Highlighted the concerns for researchers and scientists they could focus on while choosing algorithms for deploying WSNs in different scenarios
- Designed variable digital *power-supply*
- Designed a digital clock using 8051 *microcontrollers*

## Academic development

11.2016 – 01.2019

Quaid-i-Azam University, Islamabad/ Pakistan

### Master of Philosophy in Electronics

Underwater wireless sensor networks (UWSNs), mobile edge computing

Excellent, 78%

## Academic development

09.2013 – 04.2016

Dissertation title: Channel-aware reliable routing for underwater wireless sensor networks (UWSNs)

Short Description: I investigated the robustness of routing protocols. Specifically, I worked on how to efficiently, especially in a resource-constrained environment, route the sensed data from the bottom of the water to the top. Also proposed routing protocol for the mission-critical applications.

Supervisor: Dr. Hasan Mahmood

University of Peshawar, Peshawar/Pakistan

**Master of Science in Electronics**

**Wireless sensor networks (WSNs), power control schemes**

Very Good, 66%

Research title: A survey of the power control scheme for wireless sensor network (WSN)

Short Description: Presented an overview of the power control schemes. In particular, I highlighted the concerns for researchers and scientists they could focus on while choosing algorithms for deploying WSNs in different scenarios.

Supervisor: Dr. Anwar Khan

08.2011 – 09.2013

Abdul Wali Khan University, Mardan/Pakistan

**Bachelor of Science in Mathematics**

**Numerical analysis & differential equation, calculus, mechanics**

Very Good, 61.09%

05.2009 – 04.2011

Nisar Shaheed Intermediate College, Risalpur, Nowshera/Pakistan

Higher Secondary School – Pre-Engineering – Grades: Very Good, 60%

07.2007 – 01.2009

Govt High School No.2, Nowshera/Pakistan

Secondary School – Science – Grades: Excellent, 71.4%

## Publications

2020

U. Ullah, **J. Qadir**, A. Mobin, and A. Hussain, "CSAR: Cooperative Stability Aware Routing Scheme for Acoustic Wireless Sensor Networks," *2019 22nd International Multitopic Conference (INMIC)*, Islamabad, Pakistan, pp. 1-8  
<https://ieeexplore.ieee.org/abstract/document/9022784>

2019

**Qadir, J.**; Khan, A.; Zareei, M.; Vargas-Rosales, C. Energy Balanced Localization-Free Cooperative Noise-Aware Routing Protocols for Underwater Wireless Sensor Networks. *Energies* 2019, 12, 4263  
<https://www.mdpi.com/1996-1073/12/22/4263/htm>

2019

Ullah, Ubaid, Ali Raza Shahid, Muhammad Irfan, **Junaid Qadir**, Mehmood Nawaz, and Rizwan Qureshi. "A Stable and Reliable Short-Path Routing Scheme for Efficient Acoustic Wireless Sensor Networks (AWSNs)." *IEEE Access* (2019)  
<https://ieeexplore.ieee.org/abstract/document/8941135>

2018

**Junaid, Q.** 2018. DNAR: Depth and noise aware routing for underwater wireless sensor networks. *In conference on complex, intelligent, and software intensive systems* pp. 240-251. Springer, Cham, 2018  
[https://link.springer.com/chapter/10.1007/978-3-319-93659-8\\_21](https://link.springer.com/chapter/10.1007/978-3-319-93659-8_21)

## Publications

**Qadir, Junaid**, Anwar Khan, Zareei, Mahdi, Hasan Mahmood, and Vijakumar Varadarajan. "Towards Mobile Edge Computing: Taxonomy, Challenges, Applications, and Future Realms". *IEEE Transactions on Cognitive Communications and Networking (ComSoc)*. (Under peer review)

Manuscript ID: TCCN-IMEC-20-0004. 16-02-2020

<https://mc.manuscriptcentral.com/tccn>

**Junaid, Qadir**, Ubaid, Ullah, BEATRIZ SAINZ DE ABAJO, GONCALO MARQUES, Begoña García Zapirain, and Isabel de la Torre Diez. Energy-Aware and Reliability Based Localization-Free Cooperative Acoustic Wireless Sensor Networks. (Submitted) to the *IEEE Access*

<https://mc.manuscriptcentral.com/ieee-access>

Anwar Khan, Atiq Ur Rehman, Zareei Mahdi, Najm Us Sama, Vargas-Rosales, Cesar, **Junaid Qadir**, and Mohamed, Ehab Mahmoud. Modem Design for Underwater Acoustic Networks: Taxonomy, Capabilities, Challenges, Applications and Future Trends. *Journal of Intelligent & Fuzzy Systems*. (Accepted for publication)

<https://easychair.org/conferences/overview?a=24121062>

Kashif Nasr, Israr Ahmad, Fatema Sabeen Shaikh, Ihsan Ali, Abdullah Numani, **Junaid Qadir**, Muhammad Kabir Ahmed, Staish Ashraf, Abdullah Gani, "Towards Connectivity of a Disconnected Cluster in Partitioned Wireless Sensor Network for Time-Critical Data Collection" Rejected from *MDPI-Sensors* under *Manuscript ID: sensors-660343*. And now ready for re-submission.

<https://susy.mdpi.com/user/manuscripts/co-authored>

Shah, Sahar, **Junaid Qadir**, Anwar Khan, and Hasan Mahmood." Security in Cloud Computing: Taxonomy, Issues, and Future Trends". Rejected from *MDPI-Sensors* under *Manuscript ID: sensors-613756*. And now ready for re-submission.

Waqas, Gulzar, Anwar Khan, Hammad Dilpazir, **Junaid Qadir**, and Hasan Mahmood. "Power Control Algorithm In Cognitive Radio Networks: A Game-Theoretic Approach". Rejected from *MDPI-Symmetry* under *Manuscript ID: sensors-735283*. And now work in progress.

## Recognized Journal Reviewer

10.2018	Acta Acustica united with Acustica" the Journal of the European Acoustics Association (EAA)
01.2019	Journal of King Saud University - Computer and Information Sciences
03.2019	IEEE International Wireless Communications and Mobile Computing Conference (IEEE IWCMC 2019)
04.2019	IEEE Access
06.2019	Heliyon
07.2019	Computer Methods and Programs in Biomedicine Elsevier
09.2019	Network Modeling Analysis in Health Informatics and Bioinformatics
01.2020	International Journal of Distributed Sensor Networks (IJDSN)

## Scientific Conferences

### Oral presentation

12.2019 Presented conference article in the 22<sup>nd</sup> IEEE international multi topic conference (IEEE INMIC 2019), FAST-NU, Islamabad

<b>Poster presentations</b>	
06.2015	Power control scheme for WSN. In: 1 <sup>st</sup> annual Electronics projects exhibition: Organized by the Department of Electronics, University of Peshawar, Peshawar/Pakistan ( <i>Poster presented in collaboration</i> ).
<b>Awards/Scholarships/ Research Grant</b>	
03.2018	Award Laptop through Prime Minister Scheme, Govt of Pakistan
05.2017	University fellowship, QAU/Pakistan
11.2015	Diya scholarship, Islamabad/Pakistan
<b>Professional Memberships</b>	
since 06.2018	SPIE. The International Society for Optics and Photonics (Departmental)
since 06.2017	NIP. National Internship Program Under Prime Minister Youth Training Scheme, Govt of Pakistan
<b>Career development and scientific trainings</b>	
06.2018	Advanced Scientific Writing: Writing Publishable Research Articles, Matsue/Japan.
05.2015	Poster Design and Presentation: Time Plan and Organizational Considerations, University of Peshawar (UoP), Peshawar /Pakistan.
10.2015	Scientific presentation skills, University of Peshawar, Peshawar/Pakistan.
08.2015	Scientific grant writing and leadership qualities
<b>Standard methods &amp; Specialized techniques</b>	
UWSNs	Underwater wireless sensor networks (UWSNs), routing protocols, energy-efficient, cooperative routing schemes, reliability-based routing
MEC	Mobile Edge Computing (MEC), Parametric Classification, Bibliometric Overview, Research Challenges, Future Directions
Image Processing	Image Defogging, Image Classification of Human and Non-Human
<b>Special knowledge</b>	
Computer skills	MS-Word – very good, MS-Excel – very good, MS-PowerPoint – very good MS-Project – Basic
Technical software	MATLAB – very good, Latex – very good, MS - Visio – very good C++ – very good, NS2 – Basic, ifogSim – Basic, OmNet++ – Basic
Statistic software	Orange – Basic (Machin learning), Programming language Python – Good
Languages	English – business fluent, sound knowledge of scientific terminology Urdu and Pashto – Native
<b>Public outreach activities &amp; Social Engagements</b>	
01.2019	QAU alumni association
06.2018	Member of QAU adventure team
03.2017	Member of Quaid-i-Azam University blood donor society
02.2013	Volunteer medical worker at DHQ Hospital Nowshera.

## References

Dr. Isabel De la Torre Diez  
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and Communications, and Telematics Engineering  
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Nowshera, 28.06.2020



Junaid Qadir