

Fahd Ahmad Khan

Associate Professor

School of Electrical Engineering and Computer Science

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About

Dr. Fahd Ahmad Khan is working as Associate Professor in the School of Electrical Engineering and Computer Science. Dr. Fahd Ahmad Khan has a PhD in Wireless Communication. Dr. Fahd Ahmad Khan has published 24 research articles & conference papers having a citation count of 556, carried out 0 projects and filed 0 intellectual property.

Qualifications

PhD in Wireless Communication King Abdullah University of Science and Technology , Saudi Arabia	2009 - 2013
MS in Wireless Communications Chalmers University of Technology , Sweden	2007 - 2009
BE in Communications NUST, Islamabad , Pakistan	2003 - 2007

Experience

Associate Professor School of Electrical Engineering and Computer Science	2021- Present
Associate Professor School of Electrical Engineering and Computer Science	2021 - 2021
Assistant Professor School of Electrical Engineering and Computer Science	2015 - 2021
Assistant Professor School of Electrical Engineering and Computer Science	2014 - 2015
Research Fellow The University of Edinburgh , Edinburgh, Scotland, UK	2013 - 2014

Awards

Academic Excellence Award	2010
Provost Award	2009

Professional Memberships

PEC	Since 2018
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Research Articles

Device Free Detection in Impulse Radio Ultrawide Bandwidth Systems <i>Waqas Bin Abbas Fuhu Che Qasim Zeeshan Ahmed Temitope Alade Fahd Ahmed Khan</i> <i>Sensors</i> , Volume 21(9), Article Number 3255 Impact Factor: 3.847 Quartile: 2 Citations: 7 DOI: 10.3390/s21093255	2021
A Survey of Autonomous Vehicles: Enabling Communication Technologies and Challenges <i>M. Nadeem Ahangar Qasim Zeeshan Ahmed Fahd Ahmed Khan Maryam Hafeez</i> <i>Sensors</i> , Volume 21, Issue 3, Article Number 706 Impact Factor: 3.847 Quartile: 2 Citations: 278	2021

- Reducing the Mutual Outage Probability of Cooperative Non-Orthogonal Multiple Access** 2020
Sana Riaz Fahd Ahmed Khan Qasim Zeeshan Ahmed Sajid Saleem
IEEE Transactions on Vehicular Technology, Volume 69, Issue 12, Pages 16207-16212
Impact Factor: 5.978 | **Quartile:** 1 | **Citations:** 11
DOI: 10.1109/TVT.2020.3035151
- Relay Selection & Power Allocation for Maximizing Sum-Throughput of a Buffered Relay Network** 2020
Fahd Ahmed Khan Zafar Abbas Malik Ali Arshad Nasir Mudassir Masood
IEEE Communications Letters, Volume 24, Issue 6, Pages 1318-1322
Impact Factor: 3.436 | **Quartile:** 2 | **Citations:** 16
DOI: 10.1109/LCOMM.2020.2981882
- Single-RF Multi-Antenna Transmission With Peak Power Constraint** 2017
Lin Zhou Constantinos B. Papadias Tharmalingam Ratnarajah Fahd Ahmed Khan
IEEE Transactions on Communications, Volume: 65, Issue:12, Pages 5197-5208, Published: Dec 2017
Impact Factor: 4.671 | **Quartile:** 1 | **Citations:** 6
DOI: 10.1109/TCOMM.2017.2737981
- Novel non-coherent and half-coherent receivers for amplify-and-forward relaying** 2016
Yunfei Chen Mohamed-Slim Alouini Fahd Ahmad Khan
Wireless Communications and Mobile Computing, Volume 16, Issue 4, Pages 469-485
Impact Factor: 1.899 | **Quartile:** 2 | **Citations:** 1
DOI: 10.1002/wcm.2550
- Achieving Arbitrary Signals Transmission Using a Single Radio Frequency Chain** 2015
Lin Zhou Tharmalingam Ratnarajah Constantinos B. Papadias Fahd Ahmed Khan
IEEE Transactions on Communications, Volume 63, Issue 12, Pages:4865-4878
Impact Factor: 2.298 | **Quartile:** 1 | **Citations:** 25
DOI: 10.1109/TCOMM.2015.2493140
- Performance analysis of an opportunistic multi-user cognitive network with multiple primary users** 2015
Fahd Ahmed Khan Kamel Tourki Mohamed-Slim Alouini Khalid A. Qaraqe
Wireless Communications and Mobile Computing, Volume 15, Issue 16, Pages 2004-2019
Impact Factor: 0.922 | **Quartile:** 3 | **Citations:** 8
DOI: 10.1002/wcm.2478
- Performance Analysis of Cloud Radio Access Networks With Distributed Multiple Antenna Remote Radio Heads** 2015
Fahd Ahmed Khan Huasen He Jiang Xue T. Ratnarajah
IEEE Transactions on Signal Processing (Volume: 63, Issue: 18, Sept.15, 2015), Volume 63, Issue 18, Pages 4784-4799
Impact Factor: 2.624 | **Quartile:** 1 | **Citations:** 46
DOI: 10.1109/TSP.2015.2446440
- Performance of amplify-and-forward multihop transmission over relay clusters with different routing strategies** 2014
Ferkan Yilmaz Mohamed-Slim Alouini Fahd Ahmed Khan
International Journal of Autonomous and Adaptive Communications Systems, Volume 7, Issue 1-2
Impact Factor: 0 | **Citations:** 1
DOI: 10.1504/IJAACS.2014.058017
- Delay Performance of a Broadcast Spectrum Sharing Network in Nakagami-m Fading** 2014
Fahd Ahmed Khan Kamel Tourki Mohamed-Slim Alouini Khalid A. Qaraqe
IEEE Transactions on Vehicular Technology, Volume 63, Issue 3, Pages 1350-1364
Impact Factor: 1.978 | **Quartile:** 1 | **Citations:** 13
DOI: 10.1109/TVT.2013.2273621
- Exact Performance Analysis of MIMO Cognitive Radio Systems Using Transmit Antenna Selection** 2014
Kamel Tourki Fahd Ahmed Khan Khalid A. Qaraqe Hong-Chuan Yang Mohamed-Slim Alouini
IEEE Journal on Selected Areas in Communications, Volume 32, Issue 3, Pages 425-438
Impact Factor: 3.453 | **Quartile:** 1 | **Citations:** 64
DOI: 10.1109/JSAC.2014.140305
- Performance Analysis of a Power Limited Spectrum Sharing System With TAS/MRC** 2014
Fahd Ahmed Khan Kamel Tourki Mohamed-Slim Alouini Khalid A. Qaraqe

IEEE Transactions on Signal Processing, Volume 62, Issue 4, Pages 954-967

Impact Factor: 2.787 | **Quartile:** 1 | **Citations:** 36

DOI: 10.1109/TSP.2013.2297684

Analytical Evaluation of Adaptive-Modulation-Based Opportunistic Cognitive Radio in Nakagami-m Fading Channels

2012

Fahd Ahmed Khan Mohamed-Slim Alouini Yunfei Chen Liang Tang

IEEE Transactions on Vehicular Technology , Volume 61, Issue 7, Page 3294-3300

Impact Factor: 2.063 | **Quartile:** 1 | **Citations:** 18

DOI: 10.1109/TVT.2012.2199527

Novel Receivers for AF Relaying with Distributed STBC Using Cascaded and Disintegrated Channel Estimation

2012

Fahd Ahmed Khan Mohamed-Slim Alouini Yunfei Chen

IEEE Transactions on Wireless Communications , Volume 11, Issue 4, Pages 1370-1379

Impact Factor: 2.418 | **Quartile:** 1 | **Citations:** 26

DOI: 10.1109/TWC.2012.021412.102166

- Multi-antenna transmission using ESPAR with peak power constraints** 2017
Fahd Ahmed Khan
25th European Signal Processing Conference (EUSIPCO) held from 28 Aug to 2 Sep 2017 in Greece res.country(88,)
Citations: N/A
DOI: 10.23919/EUSIPCO.2017.8081503
- Arbitrary Signal Transmission Using An ESPAR Antenna** 2015
Lin Zhou Fahd Ahmed Khan Tharmalingam Ratnarajah
2015 IEEE International Conference on Communications (ICC), res.country(231,)
Citations: N/A
DOI: 10.1109/ICC.2015.7249102
- Opportunistic Fixed Gain Bidirectional Relaying With Outdated CSI in Heterogeneous networks** 2015
Fahd Ahmed Khan Kamel Tourki Mohamed-Slim Alouini Khalid A. Qaraqe Fahd Ahmed Khan Kamel Tourki Mohamed-Slim Alouini Khalid A. Qaraqe
IEEE 81st Vehicular Technology Conference (VTC Spring) held from 11-14 May 2015 in Glasgow, UK, res.country(231,)
Citations: N/A
DOI: 10.1109/VTCSpring.2015.7145978
- Outage and SER Performance of An Opportunistic Multi-User Underlay Cognitive Network** 2012
Fahd Ahmed Khan Kamel Tourki Mohamed-Slim Alouini Khalid A. Qaraqe
2012 IEEE International Symposium on Dynamic Spectrum Access Networks, res.country(233,)
Citations: N/A
DOI: 10.1109/DYSPAN.2012.6478151
- Novel Half-Coherent Receivers for Amplify-and-Forward Relaying** 2012
Fahd Ahmed Khan Yunfei Chen Mohamed-Slim Alouini
2012 IEEE 13th International Workshop on Signal Processing Advances in Wireless Communications (SPAWC), res.country(224,)
Citations: N/A
DOI: 10.1109/SPAWC.2012.6292940
- Superior Coherent Receivers for AF Relaying with Distributed Alamouti Code** 2011
Fahd Ahmed Khan Yunfei Chen Mohamed-Slim Alouini
2011 IEEE Vehicular Technology Conference (VTC Fall), res.country(233,)
Citations: N/A
DOI: 10.1109/VETECF.2011.6093089
- Generalized Routing Protocols for Multihop Relay Networks** 2011
Fahd Ahmed Khan Ferkan Yilmaz Mohamed-Slim Alouini
2011 7th International Wireless Communications and Mobile Computing Conference, res.country(224,)
Citations: N/A
DOI: 10.1109/IWCMC.2011.5982641
- Novel Coherent Receivers for AF Distributed STBC Using Disintegrated Channel Estimation** 2011
Fahd Ahmed Khan Yunfei Chen Mohamed-Slim Alouini
2011 IEEE 73rd Vehicular Technology Conference (VTC Spring), res.country(113,)
Citations: N/A
DOI: 10.1109/VETECS.2011.5956258
- Electronic dispersion compensation by Hadamard transformation** 2010
Fahd A. Khan Erik Agrell Magnus Karlsson
Optical Fiber Communication Conference 2010, res.country(233,)
Citations: N/A
DOI: 10.1364/OFC.2010.OWV4