Salman Abdul Ghafoor

Professor

School of Electrical Engineering and Computer Science

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LinkedIn:

About

Dr. Salman Abdul Ghafoor is working as Professor in the School of Electrical Engineering and Computer Science. Dr. Salman Abdul Ghafoor has a PhD in Fiber Optic Communications. Dr. Salman Abdul Ghafoor has published 88 research articles & conference papers having a citation count of 778, carried out 3 projects and filed 1 intellectual property.

Qualifications

PhD in Fiber Optic Communications 2008 - 2012
University of Southampton , United Kingdom

MSc in Electrical Engineering 2006 - 2007
University of Nottingham , United Kingdom

BSc in Electrical Engineering 2002 - 2006
UET Peshawar , Pakistan

Experience

Professor 2022- Present
School of Electrical Engineering and Computer Science

Associate Professor 2019 - 2022
School of Electrical Engineering and Computer Science

Assistant Professor 2017 - 2019
School of Electrical Engineering and Computer Science

Assistant Professor 2013 - 2017
School of Electrical Engineering and Computer Science

Assistant Professor 2012 - 2013
School of Electrical Engineering and Computer Science

Professional Memberships

PEC Since 2015

Research Projects

National Projects

Solar-Powered Desalination for Sustainable Freshwater Production

Funding Agency: N/A
Amount: PKR 61,695.00
Status: Completed

Design and Development of USV Swarm System for Enhanced Maritime Capabilities 2024

Funding Agency: RIC NUST
Amount: PKR 1,000,000.00
Status: Approved_inprocess

Smart Helmet for Improved Safety 2020

Funding Agency: NUST
Amount: PKR 199,000.00
Status: Completed

International Projects

Research Articles

Increasing capacity of intra-datacenter communications using a novel combination of DQPSK and PAM-4 modulation formats 2025

Yuxuan Yi Salman Abdul Ghafoor Abdullah G. Alharbi Jawad Mirza Muhammad Imran

Optical Fiber Technology, Volume:94, Article Number 104309

Impact Factor: 2.700 | **Quartile:** 2
DOI: https://doi.org/10.1016/j.yofte.2025.104309

DeepFins: Capturing dynamics in underwater videos for fish detection 2025

Ahsan Jalal Ahmad Salman Ajmal Mian Salman Abdul Ghafoor Faisal Shafait

Ecological Informatics , Volume 86, Article Number 103013

Impact Factor: 5.900 | **Quartile:** 1 | **Citations:** 5
DOI: https://doi.org/10.1016/j.ecoinf.2025.103013

A ground-to-GEO-to-LEO satellite optical wireless communication link based on a spectrally efficient and secure modulation scheme 2025

Chen Xu Umair Ali Khan Salman Abdul Ghafoor Jawad Mirza Abdulah Jeza Aljohani Imran Aziz

Frontiers in Physics, Volume 13, Article Number 1562799

Impact Factor: 1.900 | **Quartile:** 2
DOI: 10.3389/fphy.2025.1562799

Relay aided UWOC-SMF-FSO based hybrid link for underwater wireless optical sensor network 2025

Jawad Mirza Ahmad Atieh Benish Kanwal Salman Abdul Ghafoor Ahmad Almogren Firdos Kanwal Imran Aziz

Optical Fiber Technology, Volume 89, Article Number 104045

Impact Factor: 2.600 | **Quartile:** 2 | **Citations:** 8
DOI: https://doi.org/10.1016/j.yofte.2024.104045

Single-longitudinal mode quadruple wavelength C+L-band erbium-doped fiber laser based on the pairs of reflective fiber bragg gratings 2024

Jawad Mirza Ahmed Atieh Benish Kanwal Salman Abdul Ghafoor Tasleem Kausar Muhammad Imran Ahmad Almogren Firdos Kanwal Imran Aziz

Physica scripta, Volume 100, Number 1, Article Number 015507

Impact Factor: 2.600 | **Quartile:** 2 | **Citations:** 3
DOI: 10.1088/1402-4896/ad96fb

Single laser based novel wavelength shift keying scheme for ground to satellite bidirectional links 2024

Faria Salman Abdul Ghafoor Jawad Mirza Abdulah Jeza Aljohani Imran Aziz

Physica Scripta, Volume:99, Issue:12, Pages: 10

Impact Factor: 2.6 | **Quartile:** 2 | **Citations:** 1
DOI: https://doi.org/10.1088/1402-4896/ad8e94

A dual-band high-gain beam steering antenna array for 5G sub-6 GHz base station 2024

Salman Ilahi Siddiqui Shahid Bashir Awais Khan Salman Abdul Ghafoor Imran Aziz

Scientific Reports , Volume 14, Issue 1, Article Number 26517

Impact Factor: 3.800 | **Quartile:** 1 | **Citations:** 3

DOI: https://doi.org/10.1038/s41598-024-75822-2

Quantum long short-term memory (QLSTM) vs. classical LSTM in time series forecasting: a comparative study in solar power forecasting 2024

Saad Zafar Khan Nazeefa Muzammil Salman Abdul Ghafoor Haibat Khan Niazi Syed Mohammad Hasan Zaidi Abdulah Jeza Aljohani Imran Aziz

Frontiers in Physics, Volume 12, Article Number 1439180

Impact Factor: 1.900 | **Quartile:** 2 | **Citations:** 5

DOI: https://doi.org/10.3389/fphy.2024.1439180

A bidirectional free space optical link for last-mile terrestrial access links employing a novel wavelength shift keying technique 2024

Salman Abdul Ghafoor Arsalan Ahmad Jawad Mirza Abdulah Jeza Aljohani Changjia Qu Imran Aziz

Optical and Quantum Electronics, Volume:56, Issue:8, Article Number: 1367, Pages: 12

Impact Factor: 3.3 | **Quartile:** 2 | **Citations:** 4

DOI: 10.1007/s11082-024-07279-6

Underwater temperature and pressure monitoring for deep-sea SCUBA divers using optical techniques 2024

Jawad Mirza Firdos Kanwal Umair Ahmad Salaria Salman Abdul Ghafoor Ahmad Atieh Ahmad Almogren Anwar-ul Haq Benish Kanwal

Frontiers in Physics, Volume:12, Pages: 09

Impact Factor: 1.9 | **Quartile:** 2 | **Citations:** 12

DOI: 10.3389/fphy.2024.1417293

Modeling and analysis of single-mode widely tunable all-fiber Ho-doped CW master oscillator power amplifier system 2024

Jawad Mirza Umair Ahmad Salaria Salman Abdul Ghafoor Ahmad Atieh Benish Kanwal Ahmad Almogren Imran Aziz

Physica Scripta, Volume 99, No. 8, Article Number 085512

Impact Factor: 2.600 | **Quartile:** 2

DOI: 10.1088/1402-4896/ad5c18

Remote monitoring of sleep disorder using FBG sensors and FSO transmission system enabled smart vest 2024

Firdos Kanwal Ahmad Atieh Salman Abdul Ghafoor Anwar-ul Haq Khurram Karim Qureshi Imran Aziz Jawad Mirza

Engineering Research Express, Volume 6, Issue 2, Article Number 025337

Impact Factor: 1.500 | **Quartile:** 2 | **Citations:** 6

DOI: 10.1088/2631-8695/ad48da

Performance Enhancement of Er–Yb: Co-doped Waveguide Amplifier Employing Backward Pumping in the Presence of Energy Transfer Upconversion 2024

Jawad Mirza Aadil Raza Ahmad Atieh Salman Abdul Ghafoor Abdullah J Alharbi Waqas Imtiaz

Arabian Journal for Science and Engineering, Volume:49, Issue:5, Page:6707-6713

Impact Factor: 2.9 | **Quartile:** 2

DOI: 10.1007/s13369-023-08440-1

Combined transmission of PPM and WSK modulated optical signal over free space optical link enabling physical layer security 2024

Faria Jawad Mirza Abdulah Jeza Aljohani Muhammad Ijaz Salman Abdul Ghafoor

Optik , Volume 302, Article Number 171748

Impact Factor: 3.100 | **Quartile:** 2 | **Citations:** 8

DOI: https://doi.org/10.1016/j.ijleo.2024.171748

Symbol error rate minimization using deep learning approaches for short-reach optical communication networks 2024

Muhammad Iqbal Salman Abdul Ghafoor Arsalan ahmad Abdulah Jeza Aljohani Jawad Mirza Imran Aziz Luca Poti

Frontiers in Physics, Volume: 12, Pages: 12

Impact Factor: 3.1 | **Quartile:** 2 | **Citations:** 5

DOI: 10.3389/fphy.2024.1387284

Pair induced quenching in high concentration Holmium-doped fiber amplifiers 2024

Jawad Mirza Salman Abdul Ghafoor Ahmad Almogren Umair Ahmad Salaria Benish Kanwal Imran Aziz Ahmad Atieh

Physica Scripta, Volume 99, Issue 5, Article Number 055513

Impact Factor: 2.900 | **Quartile:** 2 | **Citations:** 2

DOI: 10.1088/1402-4896/ad36f5

Multi-modal LSTM network for anomaly prediction in piston engine aircraft 2024

Waqas Rauf Khattak Ahmad Salman Salman Abdul Ghafoor Seemab Latif

Heliyon , Volume 10, Issue 3, Article Number e25120

Impact Factor: 4.0 | **Quartile:** 2 | **Citations:** 5
DOI: 10.1016/j.heliyon.2024.e25120

A full duplex LG modes enabled millimeter-wave based FSO communication system for disaster zone 2024
Saeed Iqbal Aadil Raza Mohammad Kaleem Muhammad Iqbal Muhammad Adeel Salman Abdul Ghafoor
Wireless Networks , Volume 30, pages 961-971
Impact Factor: 3 | **Quartile:** 2
DOI: 10.1007/s11276-023-03526-y

Sparse Representations Optimization with Coupled Bayesian Dictionary and Dictionary Classifier for Efficient Classification 2024
Muhammad Riaz-ud-din Salman Abdul Ghafoor Faisal Shafait
Applied Sciences , Volume 14, Issue 1, Article Number 306
Impact Factor: 2.7 | **Quartile:** 2
DOI: https://doi.org/10.3390/app14010306

Open Networking Engine (ONE): An Orchestration Tool for Open Optical Line System 2024
Arsalan ahmad Salman Abdul Ghafoor Hafiz Mati Ur Rahman Rida Hanif
IEEE Access , Volume 12, Pages 8940-8956
Impact Factor: 3.9 | **Quartile:** 2 | **Citations:** 2
DOI: 10.1109/ACCESS.2024.3354172

Pumping scheme for Holmium-doped fiber amplifiers using traditional 1480 nm pumps exploiting cascaded lasers implemented using fiber Bragg gratings 2024
Benish Kanwal Ahmad Atieh Salman Abdul Ghafoor Muhammad Sajid Jawad Mirza
Microwave and Optical Technology Letters, Volume: 66, Issue: 01, Article Number: e33899
Impact Factor: 1.5 | **Quartile:** 4 | **Citations:** 1
DOI: 10.1002/mop.33899

A high power and repetition rate wavelength tunable actively mode-locked Holmium-doped fiber laser for bidirectional transmission between two HAPS 2023
Jawad Mirza Ahmad Atieh Salman AlQahtani Salman Ghafoor
Optical and Quantum Electronics, Volume 55, Issue 14, Article Number 1248
Impact Factor: 3.0 | **Quartile:** 2 | **Citations:** 6
DOI: https://doi.org/10.1007/s11082-023-05471-8

Design of an efficient thulium-doped fiber amplifier for dual-hop earth to satellite optical wireless links 2023
Jawad Mirza Ahmad Atieh Muhammad Ilyas Menhas Salman Ghafoor Musab Magam Laiq Jamal Sharif Iqbal Mitu Sheikh Khurram Karim Qureshi
Ain Shams Engineering Journal, Volume 14, Issue 7, Article Number 101983
Impact Factor: 4.790 | **Quartile:** 1 | **Citations:** 11
DOI: https://doi.org/10.1016/j.asej.2022.101983

Design and performance of a repetition rate controllable and wavelength tunable L + U-band actively mode-locked erbium fiber laser 2023
Benish Kanwal Ahmad Atieh Salman Ghafoor Muhammad Sajid Jawad Mirza
Journal of the Optical Society of America B, Volume 40, Issue 6, Pages 1644-1651
Impact Factor: 2.058 | **Quartile:** 3 | **Citations:** 6
DOI: https://doi.org/10.1364/JOSAB.489410

Electroabsorption Modulator-Based Relay for the Transmission of DPSK-Modulated Signals over the Free Space Optical Link 2023
Salman Abdul Ghafoor Sher Afraz Aadil Raza Muhammad Fasih Uddin Butt
Arabian Journal for Science and Engineering, Volume 48, Issue 5, Pages 6163-6173
Impact Factor: 2.807 | **Quartile:** 2 | **Citations:** 2
DOI: 10.1007/s13369-022-07277-4

A novel technique for secure transmission of two channels using a single optical pulse position modulated signal for free space optical communication 2023
Salman Ghafoor Abdulah Jeza Aljohani Jawad Mirza Awais Khan Shahid Bashir
Optical and Quantum Electronics, Volume 55, Issue 4, Article Number: 350
Impact Factor: 2.794 | **Quartile:** 2 | **Citations:** 5
DOI: https://doi.org/10.1007/s11082-023-04633-y

Isolation Enhancement in a Compact Four-Element MIMO Antenna for Ultra-Wideband Applications 2023
Awais Khan Shahid Bashir Salman Ghafoor Hatem Rmili Jawad Mirza Ammar Ahmad

Computers, Materials and Continua, Volume 75, Issue 1, Pages 911-925

Impact Factor: 3.860 | **Quartile:** 2 | **Citations:** 7

DOI: https://doi.org/10.32604/cmc.2023.033866

400 Gbps/λ PAM-4 data transmission over FSO link by employing space division multiplexing for data center interconnects using LG modes enabled VCSELs 2023

Aadil Raza Saeed Iqbal Muhammad Iqbal Jawad Mirza Salman Ghafoor Ahmad Atieh

Optical and Quantum Electronics, Volume 55, Issue 3, Article Number 283

Impact Factor: 2.794 | **Quartile:** 2 | **Citations:** 9

DOI: https://doi.org/10.1007/s11082-023-04572-8

Radio over plastic optical fibers - A tutorial and review 2022

Usama Adnan Zaheer Abbas Aamir Gulistan Salman Ghafoor

Journal of Optical Communications, Pages 1-12

Impact Factor: N/A | **Citations:** 1

DOI: https://doi.org/10.1515/joc-2022-0064

A Robust Nonlinear Sliding Mode Controller for a Three-Phase Grid-Connected Inverter with an LCL Filter 2022

Abu Sufyan Mohsin Jamil Salman Abdul Ghafoor Qasim Awais Hafiz Ali Ahmad Ashraf Ali Khan Hassan Abouobaida

Energies , Volume 15, Issue 24, Article Number 9428

Impact Factor: 3.252 | **Quartile:** 3 | **Citations:** 20

DOI: https://doi.org/10.3390/en15249428

Design and analysis of redundant optical comb for data center networks 2022

Ahmad Atieh Benish Kanwal Salman Abdul Ghafoor Muhammad Sajid Jawad Mirza

Optical and Quantum Electronics, Volume 55, No. 1, Article Number 58

Impact Factor: 2.794 | **Quartile:** 2 | **Citations:** 3

DOI: https://doi.org/10.1007/s11082-022-04387-z

Performance Enhancement of Praseodymium Doped Fiber Amplifiers 2022

Abdullah G. Alharbi Jawad Mirza Mehak Raza Salman Abdul Ghafoor

Computers, Materials and Continua, Volume 73, Issue 3, Pages 5411-5422

Impact Factor: 3.860 | **Quartile:** 2 | **Citations:** 11

DOI: 10.32604/cmc.2022.029317

Design and Analysis of an O+E-Band Hybrid Optical Amplifier for CWDM Systems 2022

Benish Kanwal Ammar Armghan Salman Abdul Ghafoor Ahmad Atieh Muhammad Sajid Tasleem Kausar Jawad Mirza Yun Lu

Micromachines , Volume 13(11), Article Number 1962

Impact Factor: 3.523 | **Quartile:** 2 | **Citations:** 5

DOI: https://doi.org/10.3390/ mi13111962

A Novel 60 Gbps Bidirectional Free Space Optical Link Based on a Single Laser Source 2022

Salman Abdul Ghafoor Jawad Mirza Tasleem Kousar Khurram Karim Qureshi

Arabian Journal for Science and Engineering, Volume 47, Issue 11, Pages 14721-14729

Impact Factor: 2.807 | **Quartile:** 2 | **Citations:** 12

DOI: https://doi.org/10.1007/s13369-022-06975-3

Design of L + U-band Erbium-doped fiber amplifier based on a single S-band forward pump source 2022

Jawad Mirza Salman Abdul Ghafoor Ahmad Salman Nazish Habib Khurram Karim Qureshi

International Journal of Communication Systems, Volume 35, Issue13, Article Number e5250

Impact Factor: 1.882 | **Quartile:** 3 | **Citations:** 7

DOI: 10.1002/dac.5250

Performance Enhancement of Ytterbium-doped Fiber Amplifier Employing a Novel Dual-stage in-band Asymmetrical Pumping 2022

Jawad Mirza Salman Abdul Ghafoor Ammar Armghan Osama I. Elhamrawy Laiq Jamal Musab Magam Sharif Iqbal Mitu Sheikh Khurram Karim Qureshi

Micromachines , Volume 13(9), Article Number 1488

Impact Factor: 3.523 | **Quartile:** 2

DOI: doi.org/10.3390/mi13091488

Novel pumping scheme of Holmium doped fiber amplifiers operating around 2μm using 1.48μm lasers exploiting cascaded fiber lasers 2022

Jawad Mirza Ahmad Atieh Benish Kanwal Salman Abdul Ghafoor

Optik , Volume 262, Article Number 169238

Impact Factor: 2.443 | **Quartile:** 2 | **Citations:** 8
DOI: https://doi.org/10.1016/j.ijleo.2022.169238

Performance Optimization of Holmium Doped Fiber Amplifiers for Optical Communication Applications in 2–2.15 µm Wavelength Range 2022

Abdullah G. Alharbi Firdous Kanwal Salman Ghafoor Nazish Habib Benish Kanwal Ahmad Atieh Tasleem Kousar Jawad Mirza
Photonics , Volume 9(4), Article Number 245
Impact Factor: 2.676 | **Quartile:** 2 | **Citations:** 10
DOI: 10.3390/photonics9040245

A Mach–Zehnder modulator based novel regenerator for employment in relays used in free space optical communication 2022

Zaheer Ahmad Jawad Mirza Abdulah Jeza Aljohani Ahmad Salman Salman Ghafoor
Transactions on Emerging Telecommunications Technologies, Volume 33, Issue 4, Article Number e4405
Impact Factor: 3.310 | **Quartile:** 2 | **Citations:** 6
DOI: 10.1002/ett.4405

Widely tunable and switchable multiwavelength erbium-doped fiber laser based on a single ring cavity 2022

Jawad Mirza Salman Abdul Ghafoor Ahmad Atieh Benish Kanwal Khurram Karim Qureshi
Journal of the Optical Society of America B, Volume 39, Issue 4, Pages 1118-1146
Impact Factor: 2.106 | **Quartile:** 3 | **Citations:** 10
DOI: https://doi.org/10.1364/JOSAB.447365

Analog Radio Over Fiber-Aided Multi-Service Communications for High-Speed Trains 2022

Yichuan Li Salman Abdul Ghafoor Mohammed El-Hajjar
IEEE Open Journal of the Communications Society, Volume 3, Pages 424-434
Impact Factor: N/A | **Citations:** 1
DOI: 10.1109/OJCOMS.2022.3156382

Design of a Continuous-Wave Ytterbium-Doped Tunable Fiber Laser Pump for Thulium-Doped Fiber Amplifiers 2022

Jawad Mirza Salman Abdul Ghafoor Anila Kousar Benish Kanwal Khurram Karim Qureshi
Arabian Journal for Science and Engineering, Volume 47, No. 3, Pages 3541-3549
Impact Factor: 2.334 | **Quartile:** 3 | **Citations:** 11
DOI: 10.1007/s13369-021-06440-7

A multi-hop free space optical link based on a regenerative relay 2022

Jawad Mirza Abdulah Jeza Aljohani Aadil Raza Saeed Iqbal Salman Abdul Ghafoor
Alexandria Engineering Journal , Volume 61, No. 2, Pages 1459-1567
Impact Factor: 6.8 | **Quartile:** 1 | **Citations:** 14
DOI: https://doi.org/10.1016/j.aej.2021.06.050

All-optical 40 channels regenerator based on four-wave mixing 2022

Salman Abdul Ghafoor Muhammad Usama Khan Aamir Gulistan Ahmad Salman Syed Muhammad Hassan Zaidi
Telecommunication Systems , Volume 79, Pages123-131
Impact Factor: 2.5 | **Quartile:** 3 | **Citations:** 1
DOI: https://doi.org/10.1007/s11235-021-00855-1

Performance evaluation of praseodymium doped fiber amplifiers 2021

Jawad Mirza Salman Ghafoor Nazish Habib Firdos Kanwal Khurram Karim Qureshi
Optical Review , Volume 28 , No. 6, Pages 611-618
Impact Factor: 0.890 | **Quartile:** 4 | **Citations:** 32
DOI: 10.1007/s10043-021-00706-z

Performance Analysis of Fiber Nonlinearity Based Optical 2R-regenerators 2021

Jawad Mirza Salman Ghafoor Kamran Siddiqi Benish Kanwal
Wireless Personal Communications, Volume 121, Pages 527-541
Impact Factor: 2.017 | **Quartile:** 3 | **Citations:** 4
DOI: https://doi.org/10.1007/s11277-021-08648-0

Integrating ultra-wideband and free space optical communication for realizing a secure and high-throughput body area network architecture based on optical code division multiple access 2021

Jawad Mirza Salman Abdul Ghafoor Waqas Ahmad Ahmad Salman Khurram Karim Qureshi
Optical Review, Volume 28, Pages 525-537
Impact Factor: 0.890 | **Quartile:** 4 | **Citations:** 12

DOI: 10.1007/s10043-021-00683-3

Millimeter-wave enabled PAM-4 data transmission over hybrid FSO-MMPOF link for access networks 2021

Saeed Iqbal Aadil Raza Muhammad Fasih Uddin Butt Jawad Mirza Muhammad Iqbal Salman Ghafoor Mohammed El-Hajjar

Optical Review, Volume 28, Pages 278–288

Impact Factor: 1.047 | **Quartile:** 4 | **Citations:** 11

DOI: https://doi.org/10.1007/s10043-021-00659-3

A High Bit Rate Free Space Optics Based Ring Topology Having Carrier-less Nodes 2021

Jawad Mirza Waqas A Imtiaz Abdulah Jeza Aljohani Salman Ghafoor

IET Communications, Pages 1-9

Impact Factor: 1.345 | **Quartile:** 4 | **Citations:** 21

DOI: https://doi.org/10.1049/cmu2.12174

A novel wideband radio frequency measurement based on photonic signal processing 2021

Ammar Khalid Abdulah Jeza Aljohani Salman Abdul Ghafoor

Microwave and Optical Technology Letters, Volume 63(4), Pages 1152-1159

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

DOI: http://dx.doi.org/10.1002/mop.32734

Design and optimization of a microwave photonic filter exploiting differential mode group delay of a multi-mode fiber 2021

Jawad Mirza Ahmad Atieh Abdulah Jeza Aljohani Salman Ghafoor

Optical Review, Volume 28, No. 2, Pages 199-206

Impact Factor: 1.047 | **Quartile:** 4 | **Citations:** 2

DOI: https://doi.org/10.1007/s10043-021-00650-y

Self restorable intra data center interconnect based on multimode fiber and free-space optics 2021

Salman Ghafoor Jawad Mirza Aadil Raza Ahmad Atieh Saeed Iqbal

Optical Engineering, Volume 60(3), Article Number 036113

Impact Factor: 1.352 | **Quartile:** 4 | **Citations:** 5

DOI: https://doi.org/10.1117/1.OE.60.3.036113

Mutual Coupling Reduction Using Ground Stub and EBG in a Compact Wideband MIMO-Antenna 2021

Awais Khan Shahid Bashir Khurram Karim Qureshi Salman Ghafoor Awais Khan Shahid Bashir Khurram Karim Qureshi

IEEE Access, Volume 9, Pages 40972-40979

Impact Factor: 3.476 | **Quartile:** 2 | **Citations:** 98

DOI: 10.1109/ACCESS.2021.3065441

All-Optical Multi-Wavelength Regenerator Based on Four-Wave Mixing 2021

Muhammad Usama Khan Abdulah J. Aljohani Aamir Gulistan Salman Ghafoor

Optical Engineering, Volume 60, No.3, Article Number 036102

Impact Factor: 1.352 | **Quartile:** 4 | **Citations:** 3

DOI: 10.1117/1.OE.60.3.036102

A Novel Regeneration Technique for Free Space Optical Communication Systems 2021

Abdulah Jeza Aljohani Jawad Mirza Salman Ghafoor

IEEE Communications Letters, Volume 25, No. 1, Pages 196-199

Impact Factor: 3.553 | **Quartile:** 2 | **Citations:** 27

DOI: 10.1109/LCOMM.2020.3029591

Design and Analysis of a 32 x 5 Gbps Passive Optical Network Employing FSO Based Protection at the Distribution Level 2020

Jawad Mirza Waqas A Imtiaz Abdulah Jeza Aljohani Ahmed Atieh Salman Ghafoor

Alexandria Engineering Journal, Volume 59, Issue 6, Pages 4621-4631

Impact Factor: 3.732 | **Quartile:** 1 | **Citations:** 38

DOI: https://doi.org/10.1016/j.aej.2020.08.020

A full duplex ultrawideband over free-space optics architecture based on polarization multiplexing and wavelength reuse 2020

Jawad Mirza Ashiq Hussain Salman Ghafoor

Microwave and Optical Technology Letters, Volume 62, Issue 12, Pages 3999-4006

Impact Factor: 1.392 | **Quartile:** 4 | **Citations:** 25

DOI: 10.1002/mop.32483

Linearly polarised modes enabled PAM-4 data transmission over few-mode fibre for data centre interconnect 2020

Saeed Iqbal Muhammad Iqbal Aadil Raza Jawad Mirza Salman Ghafoor M F U Butt M. El Hajjar

Electronics Letters , Volume 56 , No. 21, Pages 1125-1127

Impact Factor: 1.314 | **Quartile:** 4 | **Citations:** 5

DOI: 10.1049/el.2020.1848

A Full-Duplex Ultra-Wideband Over Multimode Fiber Link for Internet of Things Based Smart Home Applications 2020

Jawad Mirza Ashiq Hussain Salman Ghafoor

Transactions on Emerging Telecommunications Technologies, Volume 31, Issue 10, Article Number e4050

Impact Factor: 2.638 | **Quartile:** 3 | **Citations:** 8

DOI: https://doi.org/10.1002/ett.4050

A full-duplex radio over fiber architecture employing 12 Gbps 16 × 16 optical multiple input multiple output for next-generation communication networks 2020

Salman Ghafoor Saeed Iqbal Aadil Raza Muhammad Fasih Uddin Butt Mohammed El-Hajjar

Transactions on Emerging Telecommunications Technologies, Volume 31, Issue 8, Article Number e3910

Impact Factor: 2.638 | **Quartile:** 3 | **Citations:** 7

DOI: https://doi.org/10.1002/ett.3910

Microwave photonic notch filter based on polarisation multiplexing and cross gain modulation in a semiconductor optical amplifier 2020

B. Kanwal Jawad Mirza Salman Ghafoor

Electronics Letters , Volume 56, No. 4, Pages 189-192

Impact Factor: 1.314 | **Quartile:** 4 | **Citations:** 5

DOI: 10.1049/el.2019.3157

Microwave photonic filtering based on optical carrier suppression modulation 2020

Faizan Umar Jawad Mirza Salman Abdul Ghafoor

Microwave and Optical Technology Letters, Volume 62, Issue 1, Pages 60-66

Impact Factor: 1.392 | **Quartile:** 4 | **Citations:** 3

DOI: 10.1002/mop.32024

All-Optical Regenerative Technique for Width Tunable Ultra-Wideband Signal Generation 2019

Jawad Mirza Ashiq Hussain Salman Ghafoor

Photonic Network Communications , Volume 38, Issue 1, Pages 98-107

Impact Factor: 1.750 | **Quartile:** 3 | **Citations:** 8

DOI: 10.1007/s11107-018-0818-0

Polarization Multiplexing-Based Ultra-Wideband Over Fiber Communication Employing Direct Modulation and Carrier Re-Use 2019

Salman Ghafoor

IEEE Communications Letters, Vol. 23 , No. 6, PP. 1008-1011

Impact Factor: 3.419 | **Quartile:** 2 | **Citations:** 4

DOI: 10.1109/LCOMM.2019.2914049

All-optical generation and transmission of multiple ultrawideband signals over free space optical link 2019

Jawad Mirza Ashiq Hussain Salman Ghafoor

Optical Engineering , Volume 58, Issue 5, Article Number 056103

Impact Factor: 1.113 | **Quartile:** 3 | **Citations:** 31

DOI: 10.1117/1.OE.58.5.056103

Integration of millimeter-wave and optical link for duplex transmission of hierarchically modulated signal over a single carrier and fiber for future 5G communication systems 2019

Rizwan Ahmad Afnan Riaz Salman Ghafoor

Telecommunication Systems , DOI 10.1007/s11235-019-00558-8, pp. 1-9

Impact Factor: 1.734 | **Quartile:** 3 | **Citations:** 4

DOI: DOI 10.1007/s11235-019-00558-8

Analogue Wireless Beamforming Exploiting the Fiber-Nonlinearity of Radio Over Fiber-Based C-RANs 2019

Yichuan Li Katla Satyanarayana Mohammed El-Hajjar Lajos Hanzo Salman Ghafoor

IEEE Transactions on Vehicular Technology, Volume 68, Issue 3, Pages 2802-2813

Impact Factor: 5.339 | **Quartile:** 1 | **Citations:** 21

DOI: 10.1109/TVT.2019.2893589

Polarization multiplexing based duplex radio-over-fiber link for millimeter wave signal transmission to a ring of multiple radio access units 2019

Tayyab Mehmood Hina Qayyum Salman Ghafoor

Frontiers of Information Technology & Electronic Engineering, Volume 20, Issue 2, Pages 300-306

Impact Factor: 1.604 | **Quartile:** 2 | **Citations:** 3

DOI: 10.1631/FITEE.1700056

Millimeter-Wave Signal Generation and Transmission to Multiple Radio Access Units by Employing Nonlinearity of the Optical Link 2018

Tayyab Mehmood Salman Ghafoor

International Journal of Communication Systems, NULL

Impact Factor: 1.278 | **Quartile:** 3 | **Citations:** 9

DOI: https://doi.org/10.1002/dac.3830

All-optical 2R-regeneration and continuous wave to pulsed signal wavelength conversion based on fiber nonlinearity 2018

Jawad Mirza Salman Ghafoor Ashiq Hussain

Optical and Quantum Electronics, NULL

Impact Factor: 1.547 | **Quartile:** 3 | **Citations:** 11

DOI: https://doi.org/10.1007/s11082-018-1633-7

SER estimation method for 56 GBaud PAM-4 transmission system 2018

Aadil Raza Kangping Zhong Salman Ghafoor Saeed Iqbal Shahid Habib Chao Lu Muhammad Adeel Muhammad Fasih Uddin Butt Chao Lu

Chinese optics letters, NULL

Impact Factor: 1.907 | **Quartile:** 3

DOI: https://www.osapublishing.org/col/abstract.cfm?uri=col-16-4-040604

MIMO-enabled integrated MGDM-WDM distributed antenna system architecture based on plastic optical fibers for millimeter-wave communication 2018

Aadil Raza Salman Ghafoor Muhammad Fasih Uddin Butt

Photonic Network Communications, Volume 35, Pages 265–273

Impact Factor: 1.328 | **Quartile:** 3 | **Citations:** 16

DOI: https://doi.org/10.1007/s11107-017-0741-9

Raman amplification by employing data modulated pump signals for bi-directional communication 2018

Muhammad Ahmad Farooq Salman Ghafoor

Microwave and Optical Technology Letters, NULL

Impact Factor: 0.933 | **Quartile:** 4

DOI: https://doi.org/10.1002/mop.31051

A novel time and wavelength interleaved optical pulsed signal for a high resolution photonic analogue to digital converter 2018

Hira Ali Jamal Salman Abdul Ghafoor

Optical and Quantum Electronics, Volume 50, Article Number 98

Impact Factor: 1.547 | **Quartile:** 3 | **Citations:** 3

DOI: https://doi.org/10.1007/s11082-018-1358-7

UWB over fiber transmission to multiple radio access units using all-optical signal processing 2017

Tayyab Mehmood Bilal Aziz Salman Abdul Ghafoor

Photonic Network Communications, Volume 34, Pages 280-287

Impact Factor: 1.203 | **Quartile:** 3 | **Citations:** 7

DOI: 10.1007/s11107-017-0695-y

The "Rap" on ROF 2015

Varghese Antony Thomas Salman Ghafoor Mohammed El-Hajjar Lajos Hanzo

IEEE Microwave Magazine, Volume 16, Issue 9, Pages 64-78

Impact Factor: 1.975 | **Quartile:** 1 | **Citations:** 14

DOI: 10.1109/MMM.2015.2453852

Self-phase modulation-based multiple carrier generation for radio over fiber duplex baseband communication 2015

Aamir Gulistan Salman Ghafoor

Photonic Network Communications, Volume 29, Issue 2, Pages 133-137

Impact Factor: 0.557 | **Quartile:** 3 | **Citations:** 12

DOI: 10.1007/s11107-014-0479-6

Baseband radio over fiber aided millimeter-wave distributed antenna for optical/wireless integration 2013

Varghese A. Thomas Salman Abdul Ghafoor Mohammed El-Hajjar Lajos Hanzo

IEEE Communications Letters, Volume 17, Issue 5, Pages 1012-1015

Impact Factor: 1.463 | **Quartile:** 2 | **Citations:** 12

DOI: 10.1109/LCOMM.2013.030413.122841

A full-duplex diversity-assisted hybrid analogue/digitized radio over fibre for optical/wireless integration 2013

Varghese A. Thomas Salman Abdul Ghafoor Mohammed El-Hajjar Lajos Hanzo

IEEE Communications Letters, Volume 17, Issue 2, Pages 409-412

Impact Factor: 1.463 | **Quartile:** 2 | **Citations:** 21

DOI: 10.1109/LCOMM.2012.122012.120975

Duplex digitized transmission of 64-QAM signals over a single fiber using a single pulsed laser source 2012

Salman Abdul Ghafoor Varghese A. Thomas Lajos Hanzo

IEEE Communications Letters, Volume:16, Issue:8, Page:1312-1315

Impact Factor: 1.160 | **Quartile:** 2 | **Citations:** 9

DOI: 10.1109/LCOMM.2012.060112.120415

Sub-Carrier-Multiplexed Duplex 64-QAM Radio-over-Fiber Transmission for Distributed Antennas 2011

Salman Ghafoor Lajos Hanzo

IEEE Communications Letters, Volume 15 , No. 12, Pages 1368-1371

Impact Factor: 0.982 | **Quartile:** 2 | **Citations:** 27

DOI: 10.1109/LCOMM.2011.101711.111794

Imperfect Digital Fibre Optic Link Based Cooperative Distributed Antennas with Fractional Frequency Reuse in Multicell Multiuser Networks 2011

Xinyi Xu Rong Zhang Salman Ghafoor Lajos Hanzo

IEEE Transactions on Vehicular Technology, Volume 60, No. 9, Pages 4439-4449

Impact Factor: 1.921 | **Quartile:** 1 | **Citations:** 9

DOI: 10.1109/TVT.2011.2171012

Conference Proceedings

A Single Laser and Fiber Based Duplex Data Transmission to Multiple Users in a Passive Optical Link 2021

Maawa Khalid Salman Abdul Ghafoor

2021 International Conference on Frontiers of Information Technology (FIT), res.country(177,)

Citations: N/A

DOI: 10.1109/FIT53504.2021.00035

Routing and Spectrum Allocation Heuristic for Sliced Elastic Optical Network System 2021

Shahzad Alam Ihtesham Khan M Umar Masood Arsalan Ahmad Salman Abdul Ghafoor Vittorio Curri

2021 IEEE Photonics Society Summer Topicals Meeting Series (SUM), res.country(156,)

Citations: N/A

DOI: 10.1109/SUM48717.2021.9505

Modeling Off-line Routing and Spectrum Allocation Problem in Elastic Optical Network 2021

Shahzad Alam M Umar Masood Ihtesham Khan Arsalan Ahmad Salman Ghafoor Vittorio Curri

International Conference on Electrical, Communication and Computer Engineering (ICECCE), res.country(157,)

Citations: N/A

DOI: 10.1109/ICECCE52056.2021.9514112

Duplex Dual-Ring Radio Over Fiber System with Centralized Light Source and Local Oscillator for millimeter-wave Transmission 2017

Anisa Qasim Tayyab Mehmood Usman Ali Qasim Umar Khan Salman Ghafoor

2017 International Multi-topic Conference (INMIC 2017), res.country(177,)

Citations: N/A

DOI: 10.1109/INMIC.2017.8289469

Editorial Activities

Optics and Laser Technology 2022
Reviewed Papers for Journals
Impact Factor: 4.939

Applied Sciences-Basel 2022
Reviewed Papers for Journals
Impact Factor: 2.838

Optics and Laser Technology 2022
Reviewed Papers for Journals
Impact Factor: 4.939

Optics and Laser Technology 2022
Reviewed Papers for Journals
Impact Factor: 4.939

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Reviewed Papers for Journals
Impact Factor: 1.345

IEEE Access 2022
Reviewed Papers for Journals
Impact Factor: 3.476

Journal of Lightwave Technology 2022
Reviewed Papers for Journals
Impact Factor: 4.439

Scientific Reports 2021
Reviewed Papers for Journals
Impact Factor: 4.996

ETRI Journal 2021
Reviewed Papers for Journals
Impact Factor: 1.622

IEEE Photonics Journal 2021
Reviewed Papers for Journals
Impact Factor: 2.250

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