Ahmad Salman

Associate Professor

School of Electrical Engineering and Computer Science

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About

Dr. Ahmad Salman is working as Associate Professor in the School of Electrical Engineering and Computer Science. Dr. Ahmad Salman has a PhD in Computer Science. Dr. Ahmad Salman has published 24 research articles & conference papers having a citation count of 1050, carried out 2 projects and filed 0 intellectual property.

Qualifications

PhD in Computer Science   2007 - 2012
  University of Manchester , United Kingdom

MS in Signal Processing   2005 - 2007
  NUST, Islamabad , Pakistan

BE in Signal Processing   1999 - 2003
  NUST, Islamabad , Pakistan

Experience

Associate Professor   2024- Present
  School of Electrical Engineering and Computer Science

Associate Professor   2020 - 2020
  School of Electrical Engineering and Computer Science

Assistant Professor   2017 - 2012
  School of Electrical Engineering and Computer Science

Assistant Professor   2016 - 2020
  School of Electrical Engineering and Computer Science

Assistant Professor   2013 - 2016
  School of Electrical Engineering and Computer Science

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

Associate Professor   2012 - 2022
  National University of Sciences and Technology , NUST, Sector H-12, Islamabad, 44000, Pakistan

Awards

University Best Teacher   2019

University Best Teacher   2019
  University Best Teacher 2018

School Best Teacher   2017
  School of Electrical Engineering and Computer Science Best Teacher 2017

NUST Split-PhD Award   2007

Research Projects

National Projects

Beyond Data   2019
   Funding Agency: HEC
   Amount: PKR 9,600,000.00
   Status: Completed

Object Detection and Categorization for Blind Using Deep Neural Learning   2017
   Funding Agency: IGNITE
   Amount: PKR 7,898,000.00
   Status: Completed

International Projects

Research Articles

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

Towards enhancing shadow removal from images   2024
   Muhammad Hamza Tariq Ahmad Salman Khawar Khurshid
   Multimedia Tools and Applications , Pages 1-26
   Impact Factor: 3.000 | **Quartile:** 2
   DOI: 10.1007/s11042-024-19824-2

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

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:** 8
   DOI: 10.1002/dac.5250

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

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

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

**Fish detection and species classification in underwater environments using deep learning with   2020
temporal information**
   Ahsan Jalal Ahmad Salman Ajmal Mian Mark Shortis Faisal Shafait
   Ecological Informatics , Volume 57, Article Number 101088

Segmentation-based image defogging using modified dark channel prior 2020

Aneela Sabir Ahmad Salman Aneela Sabir Khawar Khurshid

EURASIP Journal on Image and Video Processing, Article number: 6, Pages 1-14

Self-Mixing Interferometric Signal Enhancement Using Generative Adversarial Network for Laser Metric Sensing Applications 2019

Imran Ahmed Usman Zabit Ahmad Salman Imran Ahmed

IEEE Access, Volume 7, Pages 179002-179009

Pixel-Based Classification of Hyperspectral Images Using Convolutional Neural Networks 2019

Syed Aamer Hussain Ali Tahir Junaid Aziz Khan Ahmad Salman

PFG – Journal of Photogrammetry, Remote Sensing and Geoinformation Science, Volume: 87 Issue: 1-2 Pages: 33-45

Optimisation of transmission map for improved image defogging 2019

Ahmad Salman Zahid Tufail Khawar Khurshid Khurram Khurshid

IET Image Processing, Volume 13, No. 7, Pages 1161-1169

Real-time fish detection in complex backgrounds using probabilistic background modelling 2019

Ahmad Salman Salman Maqbool Abdul Hannan Khan Ahsan Jalal Faisal Shafait

Ecological Informatics, Volume 51, Pages 44-51

Automatic fish detection in underwater videos by a deep neural network-based hybrid motion learning system 2019

Faisal Shafait Ahmad Salman Shoaib Ahmad Siddiqui Ajmal Mian Mark R. Shortis Khawar Khurshid Adrian Ulges Ulrich Schwanecke

ICES Journal of Marine Science, Volume 76, Issue 4

Improved Dark Channel Prior for Image Defogging using RGB and YCbCr Color Space 2018

Khawar Khurshid Ahmad Salman Imran Fareed Nizami Khurrum Khurshid Byeungwoo Jeon Zahid Tufail

IEEE Access, NULL

Enabling profound hearing impaired children to articulate words using lip-reading through software application 2018

Lozina Shoaib Sharifullah Khan Ahmad Salman Muhammad Azeem Abbas

Journal of the Pakistan Medical Association, March 2018, Volume 68, Issue 3

Automatic fish species classification in underwater videos: Exploiting pre-trained deep neural network models to compensate for limited labelled data 2018

Shoaib Ahmed Siddiqui Ahmad Salman Muhammad Imran Malik Faisal Shafait Ajmal Mian Mark Shorits Euan Harvey

ICES Journal of Marine Science, NULL

Fish species classification in unconstrained underwater environments based on deep learning 2016

Ahmad Salman Ahsan Jalal Faisal Shafait Ajmal Mian Mark Shortis James Seager Euan Harvey

Limnology and Oceanography: Methods, NULL

American Sign Language Translation through Sensory Glove; SignSpeak 2015

Jan Fizza Bukhari Maryam Rehman Saman Ishtiaq Malik Awais Mehmood Kamboh Ahmad Salman

International Journal of U- E-Service, Science Technology, Volume 8, Issue 1, Pages 131-141

Impact Factor: N/A

Conference Proceedings

Object Detection and Classi_x005F_x000c_fication in Low Resolution Underwater Imagery Using Deep Neural Network and Motion-Inspired Features 2019

Ahsan Jalal Ahmad Salman

International Conference on Machine Learning and Data Mining, res.country(233,)

Citations: N/A

EPILEPTIC Seizure Classification Using Gradient Tree Boosting Classifier 2019

Asjid Tanveer Ahmad Salman

2019 9th International Conference on Biomedical Engineering and Technology, res.country(113,)

Citations: N/A

Extracting speaker-specific information with a regularized Siamese deep network 2011

Ke Chen Ahmad Salman

Advances in Neural Information Processing Systems, res.country(68,)

Citations: N/A

Exploring speaker-specific characteristics with deep learning 2011

Ahmad Salman Ke Chen

The 2011 International Joint Conference on Neural Networks, res.country(233,)

Citations: N/A

Speaker verification using boosted cepstral features with Gaussian distributions 2007

Ahmad Salman Ejaz Muhammad Khawar Khurshid

2007 IEEE International Multitopic Conference, res.country(177,)

Citations: N/A

Editorial Activities

ICES Journal of Marine Science 2023
Edited Journal Issue / Proceeding / Book
Impact Factor: 3.3

Limnology and oceanography, methods 2022
Reviewed Papers for Journals
Impact Factor: N/a

Aquacultural Engineering 2022
Reviewed Papers for Journals
Impact Factor: 3.273

2021

Edited Journal Issue / Proceeding / Book
Impact Factor: 5.247