

Imran Usman

Professor
Military College of Signals
Email: imranusman@nbc.mustmust.edu.pk
Contact: 0092034583



About

Dr. Imran Usman is working as Professor in the Military College of Signals. Dr. Imran Usman has a PhD in Computer And Information Sciences. Dr. Imran Usman has published 37 research articles & conference papers having a citation count of 558, carried out 1 projects and filed 0 intellectual property.

Qualifications

PhD in Computer And Information Sciences Pakistan Institute of Engineering and Applied Sciences (PIEAS) , Pakistan	2006 - 2010
MS in Computer System Engineering Ghulam Ishaq Khan Institute of Science & Technology , Pakistan	2004 - 2006
BS in Computer Software Engineering Foundation University Islamabad , Pakistan	1999 - 2003

Experience

Professor Military College of Signals	2025- Present
Professor NUST Balochistan Campus	2021 - 2025
Associate Professor Saudi Electric University , Riyadh, KSA	2014 - 2021
Assistant Professor Centre for Advanced Studies in Telecommunication (CAST), COMSATS Institute of Information Technology Islamabad , Islamabad	2012 - 2014
Assistant Professor and Senior In-Charge of Graduate Program COMSATS Institute of Information Technology , Islamabad	2010 - 2012
Assistant Professor Iqra University , Islamabad	2009 - 2010
Lecturer Iqra University , Quetta	2003 - 2004
Intern (Programmer and Group Leader) Land Mark Resources , Columbia	2002 - 2003
Intern Remote Intelligent Monitoring Systems , Pakistan	2002 - 2002

Awards

Research Productivity Awd Research Productivity Award, COMSATS University Islamabad

Research Projects

National Projects

Smart Application Development for Mineral Classification	2024
Funding Agency: NUST	
Amount: PKR 3,500,000.00	
Status: Approved_inprocess	

International Projects

Research Articles

Stereoscopic shift error expansion reversible watermarking scheme using depth image based rendering	2024
Saeeda Beenish Zahra Tariq Bashir Imran Usman M Mohsin Riaz	
Multimedia Tools and Applications , Pages: 18	
Impact Factor: 3.6 Quartile: 2	
DOI: https://doi.org/10.1007/s11042-024-18570-9	
Agent Based Modelling in Digital Twins for Household Water Consumption Forecasting	2024
Sultan Alamir Imran Usman Saad Alvi	
Przeglad Elektrotechniczny , Volume 2024 (1) , Pages 158-164	
Impact Factor: 0.400 Quartile: 4	
DOI: 10.15199/48.2024.01.33	
Classification of Gastric Lesions Using Gabor Block Local Binary Patterns	2023
Muhammad Tahir Farhan Riaz Imran Usman Muhammad Ibrahim Habib	
Computer Systems Science and Engineering , Volume 46(3), Pages 4007-4022	
Impact Factor: 4.397 Quartile: 1	
DOI: https://doi.org/10.32604/csse.2023.032359	
Entropy generation due to micro-rotating Casson's nanofluid flow over a nonlinear stretching plate: numerical treatment	2022
Abdul Salam Khan Muhammad Nasir Abrar Salah Uddin Muhammad Awais Imran Usman	
Waves in Random and Complex Media, Pages 1-17	
Impact Factor: 4.051 Quartile: 2 Citations: 13	
DOI: 10.1080/17455030.2022.2067376	
Analyzing Tweets for Better Decision-Making using Machine Learning	2021
Imran Usman Hazzaa N. Al Shareef	
International Journal of Computer Science and Network Security, Volume 21, No.10, Pages 119-124	
Impact Factor: N/A	
DOI: N/A for Analyzing Tweets for Better Decision-Making using Machine Learning	
Reducing Entropy Overestimation in Soft Actor Critic Using Dual Policy Network	2021
Hamid Ali Hammad Majeed Imran Usman Khaled A. Al Mejalli	
Wireless Communications and Mobile Computing, Volume 2021, Article ID 9920591, 13 pages	
Impact Factor: 2.146 Quartile: 3 Citations: 13	
DOI: https://doi.org/10.1155/2021/9920591	
Intelligent Automated Cognitive-Maturity Recognition System for Confidence Based E-Learning	2021
Imran Usman Adeeb M. Al Homoud	
International Journal of Computer Science and Network Security, Volume 21, Issue 4, Pages 223-228	
Impact Factor: N/A	
DOI: https://doi.org/10.22937/IJCSNS.2021.21.4.27	
Abnormal Crowd Behavior Detection Using Heuristic Search and Motion Awareness	2021
Imran Usman Abdulaziz A. Albeshier	
International Journal of Computer Science and Network Security, Volume 21, Issue 4, Pages 131-139	
Impact Factor: N/A	
DOI: https://doi.org/10.22937/IJCSNS.2021.21.4.18	
A robust iris localization scheme for the iris recognition	2021
Farmanullah Jan Nasro Min-Allah Shahrukh Agha Imran Usman Irfanullah Khan	
Multimedia Tools and Applications , Volume 80, Pages 4579-4605	

Impact Factor: 2.577 Quartile: 2 Citations: 28 DOI: 10.1007/s11042-020-09814-5	
Intelligent Automated Detection of Microaneurysms in Fundus Images using Feature-Set Tuning <i>Imran Usman Khaled A. Almejalli</i> <i>IEEE Access</i> , Volume 8, Pages 65187-65196 Impact Factor: 3.367 Quartile: 2 Citations: 23 DOI: 10.1109/ACCESS.2020.2985543	2020
A DCT Domain Smart Vicinity Reliant Fragile Watermarking Technique for DIBR 3D-TV <i>Tariq Bashir Imran Usman Abdulaziz Abdullah Albeshier Samer Hassan Atawneh Syed Saud Naqvi</i> <i>Automatika</i> , Volume 61, No. 1, Pages 58-65 Impact Factor: 0.764 Quartile: 4 Citations: 3 DOI: https://doi.org/10.1080/00051144.2019.1670992	2019
GP based smart reversible watermarking of depth image based rendering for stereoscopic images <i>Tariq Bashir Imran Usman Abdulaziz Abdullah Albeshier Khaled A. Almejalli Syed Saud Naqvi</i> <i>Multimedia Tools and Applications</i> , Volume 78, Pages 21943-21962 Impact Factor: 2.313 Quartile: 2 Citations: 4 DOI: 10.1007/s11042-019-7399-5	2019
An Efficient Depth Estimation Technique Using 3-Trait Luminance Profiling <i>Imran Usman</i> <i>Engineering, Technology & Applied Science Research</i> , Volume 9, No. 4, Pages 4428-4432 Impact Factor: N/A Citations: 1 DOI: 10.48084/etasr.2857	2019
Efficient routing for corona based underwater wireless sensor networks <i>Zahoor Ali Khan Ghazanfar Latif Arshad Sher Manzoor Ilahi Nadeem Javaid Imran Usman Mahmood Ashraf</i> <i>Computing</i> , Volume 101, Pages 831-856 Impact Factor: 2.044 Quartile: 2 Citations: 21 DOI: https://doi.org/10.1007/s00607-018-0690-x	2019
A Model for English to Urdu and Hindi Machine Translation System using Translation Rules and Artificial Neural Network <i>Shahnawaz Khan Imran Usman</i> <i>The International Arab Journal of Information Technology</i> , Volume 16, No. 1, Pages 125-131 Impact Factor: 0.467 Quartile: 4 DOI: 10.1007/s11042-020-09814	2019
Self-organizing inter-cell interference coordination in 4G and beyond networks using genetic algorithms <i>Aasia Kashaf Moazzam Islam Tiwana Imran Usman Mohsin Islam Tiwana</i> <i>Automatika</i> , Volume 58, Issue 1, Pages 48-54 Impact Factor: 0.302 Quartile: 4 Citations: 8 DOI: 10.1080/00051144.2017.1337394	2017
Information Embedding Algorithm based on Diamond Encoding Scheme with Different-base Digits <i>Samer Atawneh Hussein Al Bazar Imran Usman Putra Sumari</i> <i>International Journal of Computer Science and Information Technology & Security</i> , Volume 7, No.1, Pages 25-32 Impact Factor: 0 DOI: 10.1007/s00607-018-0690	2017
Secure Digital Watermarking using Optimized Improved Spread Spectrum and BCH Coding for DIBR 3D-TV System <i>Tariq Bashir Imran Usman Junaid Ur Rehman</i> <i>Multimedia Tools and Applications</i> , Volume 75, Pages 7697-7713 Impact Factor: 1.530 Quartile: 2 Citations: 4 DOI: 10.1007/s11042-015-2689-z	2016
A dynamic non-circular iris localization technique for non ideal data <i>Farmanullah Jan Imran Usman Shahid A. Khan Shahzad A. Malik</i> <i>Computers & Electrical Engineering</i> , Volume 40, Issue 8, Pages 215-226 Impact Factor: 0.817 Quartile: 3 DOI: 10.1109/ ACCESS.2020.2985543.	2014

Iris Segmentation for Visible Wavelength and Near Infrared Eye Images <i>Farmanullah Jan Imran Usman</i> <i>Optik</i> , Volume 125, Issue 16, Pages 4274-4282 Impact Factor: 0.677 Quartile: 4 DOI: 10.48084/etasr.2857-	2014
Intelligent reversible watermarking technique in medical images using GA and PSO <i>Talat Naheed Tariq M. Khan Amir H. Dar Muhammad Farhan Shafique Imran Usman</i> <i>Optik</i> , Volume 125, Issue 11, Pages 2515-2525 Impact Factor: 0.677 Quartile: 4 Citations: 63 DOI: https://doi.org/10.1016/j.ijleo.2013.10.124	2014
Iris localization based on the Hough transform, a Radial-gradient operator, and the gray-level intensity <i>Farmanullah Jan Shahid A. Khan Shahzad A. Malik Imran Usman</i> <i>Optik</i> , Volume 124, Issue 23, Pages 5976-5985 Impact Factor: 0.769 Quartile: 3 Citations: 23 DOI: 10.1109/ ACCESS.2020.2985543	2013
An UWB Diversity Antenna Array with a Novel H type Decoupling Structure <i>Nayab Gogosh Muhammad Farhan Shafique Imran Usman Rashid Saleem A. M. Faiz</i> <i>Microwave and Optical Technology Letters</i> , Volume 55, Issue 11, Pages 2715-2720 Impact Factor: 0.623 Quartile: 4 Citations: 25 DOI: 10.1002/mop.27941	2013
Intelligent Churn prediction for Telecommunication Industry <i>Imran Usman Tariq Usman Imran Khan Ghani Ur Rehman Ateeq Ur Rehman</i> <i>International Journal of Innovation and Applied Studies</i> , Volume 4, Issue 1, Pages 165-170 Impact Factor: - DOI: 10.1504/IJAHUC.2020.105462.	2013
A non-circular iris localization algorithm using image projection function and gray level statistics <i>Farmanullah Jan Imran Usman Shahrukh Agha</i> <i>Optik</i> , Volume 124, Issue 18, Pages 3187-3193 Impact Factor: 0.769 Quartile: 3 Citations: 14 DOI: 10.1016/J.IJLEO.2012.09.018	2013
Robust iris biometric system for visible wavelength data <i>Farmanullah Jan Shahid A. Khan Imran Usman</i> <i>Chinese Optics Letters</i> , Volume 11, Issue 8, Article Number 081501 Impact Factor: 1.073 Quartile: 3 Citations: 28 DOI: /10.1007/s11042-020-09814-5	2013
A New Additive Watermarking Technique for Multimodal Biometric Identification <i>Asad Javed Muhammad Fasiullah Muhammad Akhtar Munir Tariq Bashir Imran Usman Muhammad Farhan Shafique Mahmood Ashraf Khan</i> <i>Journal of Basic and Applied Scientific Research</i> , Volume 3(7), Pages 935-942 Impact Factor: - DOI: 10.1007/s00607-018-0690	2013
EEG feature classification using enhanced CSSD and combination of classifiers <i>Atiq A. Tahir Zahid Mehmood Tariq Bashir Imran Usman Muhammad Farhan Shafique Mahmood Ashraf Khan</i> <i>Journal of Basic and Applied Scientific Research</i> , Volume 3(7), Pages 911-914 Impact Factor: - DOI: https://www.textroad.com/pdf/JBASR/J.%20Basic.%20Appl.%20Sci.%20Res.,%203(7)911-914,%202013.pdf	2013
A Novel Bi-Elliptical Planar Antenna for Ultra Wideband Communications <i>Nayab Gogosh Rashid Saleem Muhammad Farhan Shafique Imran Usman Mahmood Ashraf Khan</i> <i>Journal of Basic and Applied Scientific Research</i> , Volume 3(7), Pages 754-759 Impact Factor: - DOI: https://www.textroad.com/pdf/JBASR/J.%20Basic.%20Appl.%20Sci.%20Res.,%203(7)754-759,%202013.pdf	2013
Reliable iris localization using Hough transform, histogram-bisection, and eccentricity <i>Farmanullah Jan Imran Usman Shahrukh Agha</i> <i>Signal Processing</i> , Volume 93, Issue 1, Pages 230-241 Impact Factor: 2.238 Quartile: 1 Citations: 55 DOI: http://dx.doi.org/10.1016/j.sigpro.2012.07.033	2013

Intelligent Reversible Watermarking and Authentication: Hiding Depth Map Information for 3D Cameras <i>Asifullah Khan Sana Ambreen Malik Rafiullah Chamlawi Mutawarra Hussain Asad Ali Muhammad Tariq Mahmood Imran Usman</i> <i>Information Sciences</i> , Volume 216, Pages 155-175 Impact Factor: 3.643 Quartile: 1 Citations: 37 DOI: https://doi.org/10.1016/j.ins.2012.06.014	2012
Iris localization in frontal eye images for less constrained iris recognition systems <i>Farmanullah Jan Imran Usman Shahrukh Agha</i> <i>Digital Signal Processing</i> , Volume 22, Issue 6, Pages 971-986 Impact Factor: 1.918 Quartile: 1 Citations: 57 DOI: http://dx.doi.org/10.1016/j.dsp.2012.06.001	2012
Reliable iris localization using integral projection function and 2D-shape properties <i>Farmanullah Jan Imran Usman Shahrukh Agha</i> <i>Chinese Optics Letters</i> , Volume 10, Issue 11, Article Number 111501 Impact Factor: 0.968 Quartile: 3 Citations: 6 DOI: 10.3788/COL201210.111501	2012
Employing Intelligence in the Embedding and Decoding Stages of a Robust Watermarking System <i>Imran Usman Asifullah Khan Rafiullah Chamlawi</i> <i>AEU - International Journal of Electronics and Communications</i> , Volume 65, Issue 6, Pages 582-588 Impact Factor: 0.588 Quartile: 3 Citations: 2 DOI: https://doi.org/10.1016/j.aeue.2010.08.009	2011
Authentication and Recovery of Images using Multiple Watermarks <i>Rafiullah Chamlawi Asifullah Khan Imran Usman</i> <i>Computers & Electrical Engineering</i> , Volume 36, Issue 3, Pages 578-584 Impact Factor: 0.484 Quartile: 4 Citations: 74 DOI: 10.1016/j.compeleceng.2009.12.003	2010
BCH coding and intelligent watermark embedding: employing both frequency and strength selection <i>Imran Usman Asifullah Khan</i> <i>Applied Soft Computing</i> , Volume 10, Issue 1, Pages 332-343 Impact Factor: 2.097 Quartile: 1 Citations: 50 DOI: https://doi.org/10.1016/j.asoc.2009.08.004	2010

Editorial Activities

Journal of Electronic Imaging Reviewed Papers for Journals Impact Factor: 1.1	2024
Computer Standards & Interfaces Reviewed Papers for Journals Impact Factor: 5.0	2023
Journal of Electronic Imaging Reviewed Papers for Journals Impact Factor: 1.1	2023