

Adil Masood Siddiqui

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About

Dr. Adil Masood Siddiqui is working as Defence Faculty in the Military College of Signals. Dr. Adil Masood Siddiqui has a PhD in Digital Image Processing. Dr. Adil Masood Siddiqui has published 58 research articles & conference papers having a citation count of 808, carried out 2 projects and filed 0 intellectual property.

Qualifications

PhD in Digital Image Processing UET Lahore , Pakistan	2005 - 2009
MS in Digital Image Processing UET Lahore , Pakistan	2003 - 2005
BE in Telecommunication Engineering UET Lahore , Pakistan	1991 - 1994

Experience

Defence Faculty Military College of Signals	2009- Present
Training Officer Defense Organization , HQ 30 Corps Gujranwala	2001 - 2003
Communication Officer NLC Communication Project , Pakistan Army	1999 - 2001
Communication Officer Defense Organization , Pakistan Army	1997 - 1999
Communication Officer Defense Communication , Pakistan Army	1995 - 1997

Professional Memberships

PEC

Research Projects

National Projects	
Solar Powered GSM Based Automatic Irrigation System. Funding Agency: IGNITE Amount: PKR 65,000.00 Status: Completed	2018
Smart Navigation Cane For Visually Impaired People. Funding Agency: IGNITE Amount: PKR 76,000.00 Status: Completed	2018

International Projects

Research Articles

<p>Enhancing visual question answering with common sense knowledge: a data-driven neurosymbolic graph routing approach</p> <p><i>Muhammad Junaid Khan Adil Masood Siddiqui Hamid Saeed Khan Muhammad Jaleed Khan</i> <i>International Journal of Data Science and Analytics</i>, Pages 1-16</p> <p>Impact Factor: 2.800 Quartile: 2</p> <p>DOI: https://doi.org/10.1007/s41060-025-00827-7</p>	2025
<p>MuReISGG: Multimodal Relationship Prediction for Neurosymbolic Scene Graph Generation</p> <p><i>Muhammad Junaid Khan Adil Masood Siddiqui Hamid Saeed Khan Faisal Akram Muhammad Jaleed Khan</i> <i>IEEE Access</i> , Volume:13, Pages 47042-47054</p> <p>Impact Factor: 3.400 Quartile: 2</p> <p>DOI: 10.1109/ACCESS.2025.3551267</p>	2025
<p>Asymmetric multi-band reflective metasurface for linear and circular polarizations conversion in Ku, K, Ka, and U bands</p> <p><i>Jamal Zafar Humayun Zubair Khan Abdul Jabbar Jalil ur Rehman Kazim Masood Ur Rehman Adil Masood Siddiqui Qammer H. Abbasi Muhammad Ali Imran</i> <i>Scientific Reports</i> , Volume:15, Issue:1, Article Number: 4977</p> <p>Impact Factor: 3.800 Quartile: 1</p> <p>DOI: 10.1038/s41598-024-81388-w</p>	2025
<p>Multi-band Reflective Metasurface for Efficient Linear and Circular Polarization Conversion</p> <p><i>Adil Masood Siddiqui Jamal Zafar Humayun Zubair Khan Abdul Jabbar Jalil ur Rehman Kazim Masood Ur Rehman Qammer H. Abbasi Muhammad Ali Imran</i> <i>Optical and Quantum Electronics</i>, Volume 57, Article Number 149</p> <p>Impact Factor: 3.300 Quartile: 2</p> <p>DOI: 10.1007/s11082-025-08037-y</p>	2025
<p>Dynamic Resource Optimization for Quality of Service-Driven Cost Minimization in Cognitive Radio Networks</p> <p><i>Umar Ghafoor Adil Masood Siddiqui</i> <i>Wireless Personal Communications</i>, Volume 139, Pages 2161-2201</p> <p>Impact Factor: 1.900 Quartile: 3 Citations: 1</p> <p>DOI: 10.1007/s11277-024-11711-1</p>	2024
<p>5G cognitive radio: Optimizing resources with cluster-assisted downlink hybrid multiple access</p> <p><i>Umar Ghafoor Adil Masood Siddiqui</i> <i>Physical Communication</i> , Volume 66, Article Number 102435</p> <p>Impact Factor: 2.000 Quartile: 2 Citations: 2</p> <p>DOI: 10.1016/j.phycom.2024.102435</p>	2024
<p>A novel, mutual coupling independent, ultra-thin, and polarization-insensitive tetra band metamaterial absorber for microwave applications</p> <p><i>Saad Mahfooz Abdul Wakeel Muhammad Sibghat Ullah Mehmood Alam Adil Masood Siddiqui Adnan Iftikhar</i> <i>Waves in Random and Complex Media</i>, Pages 1-17</p> <p>Impact Factor: N/A</p> <p>DOI: https://doi.org/10.1080/17455030.2024.2370021</p>	2024
<p>A 4-Port Broadband High-Isolated MIMO Antenna for Wireless Communication</p> <p><i>Ayyaz Ali Maryam Rasool Muhammad Zeeshan Zahid Imran Rashid Adil Masood Siddiqui Moazzam Maqsood Farooq Ahmed Bhatti</i> <i>Progress in Electromagnetic Research C</i>, Volume 142, Pages 119-130</p> <p>Impact Factor: N/A Citations: 4</p> <p>DOI: http://dx.doi.org/10.2528/PIERC24012905</p>	2024
<p>Moving towards agile cybersecurity incident response: a case study exploring the enabling role of big data analytics-embedded dynamic capabilities</p> <p><i>Ayesha Naseer Humza Naseer Atif Ahmed Sean B Maynard Adil Masood Siddiqui</i> <i>Computers and Security</i> , Volume 135, Article Number 103525</p> <p>Impact Factor: 5.6 Quartile: 2 Citations: 12</p> <p>DOI: https://doi.org/10.1016/j.cose.2023.103525</p>	2023
<p>A compact bent microstrip-based wideband millimeter wave MIMO antenna for 5G applications</p> <p><i>Ayyaz Ali Maryam Rasool Zeeshan Zahid Imran Rashid Adil Masood Siddiqui Moazam Maqsood Farooq Ahmed Bhatti</i> <i>International Journal of Microwave and Wireless Technologies</i>, Pages 1-16</p> <p>Impact Factor: 1.4 Quartile: 4 Citations: 3</p> <p>DOI: https://doi.org/10.1017/S175907872300106X</p>	2023

<p>Cluster based resource management using H-NOMA in heterogeneous networks beyond 5G</p> <p><i>Umar Ghafoor Humayun Zubair Khan Adil Masood Siddiqui Mudassar Ali Abdul Rauf Arif Wahla Muhammad Naeem</i></p> <p><i>Ad Hoc Networks</i> , Volume 149, Article Number 103252</p> <p>Impact Factor: 4.8 Quartile: 2 Citations: 8</p> <p>DOI: https://doi.org/10.1016/j.adhoc.2023.103252</p>	2023
<p>An Improved Multiexposure Image Fusion Technique</p> <p><i>Nazish Zulfiqar Adil Masood Siddiqui Awais Ahmad Mian Muhammad Waseem Iqbal Muhammad Imran Imran Touqeer Wajiha Munir</i></p> <p><i>Big Data</i> , Pages 1-10</p> <p>Impact Factor: 4.426 Quartile: 1 Citations: 1</p> <p>DOI: DOI: 10.1089/big.2021.0223</p>	2023
<p>A highly efficient deca-band metasurface absorber for diverse microwave applications</p> <p><i>Adnan Yousaf Abdul Wakeel Muhammad Zeeshan Zahid Mudassir Murtaza Adil Masood Siddiqui Muhammad Imran</i></p> <p><i>Waves in Random and Complex Media</i>, Pages 1-14</p> <p>Impact Factor: 4.051 Quartile: 2</p> <p>DOI: https://doi.org/10.1080/17455030.2022.2152909</p>	2022
<p>Energy Efficient Resource Allocation for H-NOMA Assisted B5G HetNets</p> <p><i>Umar Ghafoor Humayun Zubair Khan Mudassar Ali Adil Masood Siddiqui Muhammad Naeem Imran Rashid</i></p> <p><i>IEEE Access</i> , Volume 10, Pages 91699 - 91711</p> <p>Impact Factor: 3.476 Quartile: 2 Citations: 13</p> <p>DOI: 10.1109/ACCESS.2022.3201527</p>	2022
<p>Efficient resource allocation for hybrid nonorthogonal multiple access based heterogeneous networks beyond fifth-generation</p> <p><i>Umar Ghafoor Mudassar Ali Humayun Zubair Khan Adil Masood Siddiqui Muhammad Naeem</i></p> <p><i>Transaction on Emerging Telecommunications Technologies</i>, Pages 1-23</p> <p>Impact Factor: 3.310 Quartile: 2 Citations: 5</p> <p>DOI: doi.org/10.1002/ett.4630</p>	2022
<p>NOMA and future 5G & B5G wireless networks: A paradigm</p> <p><i>Umar Ghafoor Mudassar Ali Humayun Zubair Khan Adil Masood Siddiqui Muhammad Naeem</i></p> <p><i>Journal of Network and Computer Applications</i> , Volume 204, Article Number 103413</p> <p>Impact Factor: 8.7 Quartile: 1 Citations: 77</p> <p>DOI: https://doi.org/10.1016/j.jnca.2022.103413</p>	2022
<p>Face Recognition System Based on Four state Hidden Markov Model</p> <p><i>Danish Ali Imran Touqir Adil Masood Siddiqui Jabeen Malik Muhammad Imran</i></p> <p><i>IEEE Access</i> , Volume 10, Pages 74436-74448</p> <p>Impact Factor: 3.476 Quartile: 2 Citations: 9</p> <p>DOI: 10.1109/ACCESS.2022.3188717</p>	2022
<p>Real-time analytics, incident response process agility and enterprise cybersecurity performance: A contingent resource-based analysis</p> <p><i>Ayesha Naseer Adil Masood Siddiqui Humza Naseer Atif Ahmad Sean B. Maynard</i></p> <p><i>International Journal of Information Management</i>, Volume 59, Pages 56-59</p> <p>Impact Factor: 14.098 Quartile: 1 Citations: 60</p> <p>DOI: https://doi.org/10.1016/j.ijinfomgt.2021.102334</p>	2021
<p>Resource allocation for energy efficiency optimization in uplink–downlink decoupled 5G heterogeneous networks</p> <p><i>Humayun Zubair Khan Mudassar Ali Imran Rashid Abdul Ghafoor Muhammad Naeem Adnan Ahmed Khan Adil Masood Siddiqui</i></p> <p><i>International Journal of Communication System</i>, Pages 1-23, Article Number e4925</p> <p>Impact Factor: 1.882 Quartile: 3 Citations: 16</p> <p>DOI: https://doi.org/10.1002/dac.4925</p>	2021
<p>Efficient Dark Channel Prior Based Blind Image De-blurring</p> <p><i>Adil Masood Siddiqui Jawad Ahmed Imran Touqir</i></p> <p><i>Radioengineering</i> , Volume 30, Issue 2</p> <p>Impact Factor: 1.105 Quartile: 4</p> <p>DOI: 10.13164/re</p>	2021
<p>A multi-slotted 2-element quadband MIMO antenna for 4G and 5G applications</p> <p><i>Maryam Rasool Farooq Ahmed Bhatti Imran Rashid Abdul Rauf Adil Masood Bilal Ijaz</i></p>	2021

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<i>Wajhia Munir Adil Masood Siddiqui Muhammad Imran Imran Tauqeer Nazish Zulfiqar Mian Muhammad Waseem Iqbal Awais Ahmad</i>	
<i>Journal of Real-Time Image Processing</i> , Pages 1-12	
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DOI: https://doi.org/10.1007/s11554-021-01120-z	
An automated and efficient convolutional architecture for disguise-invariant face recognition using noise-based data augmentation and deep transfer learning	2021
<i>Muhammad Junaid Khan Muhammad Jaleed Khan Adil Masood Siddiqui Khurram Khurshid</i>	
<i>Visual Computer</i> , Pages 1-15	
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DOI: 10.1007/s00371-020-02031-z	
Coherence Optimized Channel Estimation for Mm-Wave Massive MIMO	2020
<i>Faisal Akram Dr Imran Rashid Dr Abdul Ghafoor Dr Adil Masood Siddiqui</i>	
<i>Radioengineering</i> , Volume:29, Issue:4, Page:625-635	
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DOI: 10.13164/re.2020.0625	
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<i>Humayun Zubair Khan Mudassar Ali Muhammad Naeem Imran Rashid Adil Masood Siddiqui Muhammad Imran Shahid Muntaz</i>	
<i>Telecommunication Systems</i> , Pages 1-14	
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A robust and efficient convolutional deep learning framework for age-invariant face recognition	2020
<i>Adil Masood Siddique Adeel Yousaf Muhammad Junaid Khan Muhammad Jaleed Khan Khurram Khurshid</i>	
<i>Expert Systems</i> , Volume 37, Issue 3, Article Number e12503	
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<i>Faisal Akram Imran Rashid Abdul Ghafoor adil masood siddique</i>	
<i>Radioengineering</i> , Volume 29, Issue 2, Pages 456-463	
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DOI: 10.13164/re.2019.0456	
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<i>Wajihia Habib Tabinda Sarwer Imran Tauqir Adil Masood Siddiqui</i>	
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Image De-noising and Compression Using Statistical based Thresholding in 2-D Discrete Wavelet Transform	2016
<i>Qazi Mazhar ul haq Imran Taoqir Adil Masood Siddique</i>	
<i>International Journal of Advanced Computer Science and Applications</i> , Volume 7, No. 11, Pages 311-316	
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Dual-tree complex wavelet transform and SVD based medical image resolution enhancement	2014
<i>Muhammad Zafar Iqbal Abdul Ghafoor Muhammad Mohsin Riaz Umar Khalid Muhammad Zafar Iqbal Adil Masood Siddiqui Muhammad Mohsin Riaz Umar Khalid</i>	
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<i>Syed Akbar Raza Naqvi Imran Tauqir Adil Masood Siddiqui</i>	
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Chaotic substitution for highly autocorrelated data in encryption algorithm <i>Amir Anis Fawad Ahmed Amir Anis Adil Masood Siddiqui Fawad Ahmed</i> <i>Communications in Nonlinear Science and Numerical Simulation</i> , Volume 19, Issue 9, Pages 3106-3118 Impact Factor: 2.866 Quartile: 1 Citations: 134 DOI: https://doi.org/10.1016/j.cnsns.2014.02.011	2014
A Technique for Digital Steganography using Chaotic Maps <i>Amir Anis Jameel Ahmad Iqtadar Hussain Amir Anis Adil Masood Siddiqui Jameel Ahmad Iqtadar Hussain</i> <i>Nonlinear Dynamics</i> , Volume 75, Issue 4, Pages 807-816 Impact Factor: 2.849 Quartile: 1 Citations: 93 DOI: https://doi.org/10.1007/s11071-013-1105-3	2014
Contrast Enhancement in Poor Visibility <i>Danish Ali Chowdhry Imran Touqir Adil Masood Siddiqui</i> <i>Radioengineering</i> , NULL Impact Factor: 0.796 Quartile: 3 DOI: http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=7&SID=F6YmueiU7w6m84UjnJ9&page=1&doc=1	2013
Satellite image resolution enhancement using dual-tree complex wavelet transform and nonlocal means <i>Abdul Ghafoor Muhammad Zafar Iqbal Adil Masood Siddiqui</i> <i>IEEE Geoscience and Remote Sensing Letters</i> , Volume 10, No. 3, Pages 451-455 Impact Factor: 1.809 Quartile: 2 Citations: 92 DOI: 10.1109/LGRS.2012.2208616	2013
Image segmentation using multilevel graph cuts and graph development using fuzzy rule-based system <i>Abdul Ghafoor Adil Masood Siddiqui Muhammad Rizwan Khokhar</i> <i>IET Image Process</i> , Volume 7, Issue 3, Pages 201-211 Impact Factor: 0.676 Quartile: 3 Citations: 46 DOI: 10.1049/iet-ipr.2012.0082	2013
Graph Cuts based Image Segmentation using Fuzzy Rule Based System <i>Muhammad Rizwan Khokhar Adil Masood Siddiqui Abdul Ghafoor</i> <i>Radioengineering</i> , Volume 21, Issue 4, Pages 1236-1245 Impact Factor: 0.687 Quartile: 3 Citations: 46 DOI: https://doi.org/10.1049/iet-ipr.2012.0082	2012
Automatic Classification of Initial Categories of Alzheimer?s Disease from Structural MRI Phase Images: A Comparison of PSVM, KNN and ANN Methods <i>Ahsan Bin Tufail Ali Abidi Muhammad Shahzad Younis adil masood</i> <i>International Journal of Biomedical and Biological Engineering</i> , Volume 6, Issue 12 Impact Factor: 0 DOI: 10.5281/zenodo.1084608	2012
Automatic registration of geometric distortions in satellite images based on control points <i>A. M Siddiqui M Saleem</i> <i>Mehran University Research Journal of Engineering and Technology</i> , Volume 28, Issue 2, Pages 129-146 Impact Factor: 0 Citations: 4 DOI: 10.1109/SPACOMM.2009.19	2009
A locally constrained radial basis function for registration and warping of images <i>Muhammad Saleem Adil Masood Siddiqui Asif Masood Muhammad Saleem</i> <i>Pattern Recognition Letters</i> , Volume 30, Issue 4, Pages 377-390 Impact Factor: 1.303 Quartile: 3 Citations: 25 DOI: 10.1016/j.patrec.2008.11.004	2009

Conference Proceedings

Ultra-wideband and High Efficiency Multi-polarization 1-bit Reflectarray Element for C, X and Ku Bands <i>Jamal Zafar Adil Masood Siddiqui Humayun Zubair Khan Jalil ur Rehman Kazim Zaid Akram Qammer H. Abbasi Muhammad Ali Imran</i> <i>2025 2nd International Conference on Microwave, Antennas and Circuits, ICMAC 2025</i> , res.country(177,)	2025
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Enhancing 6G Network Security Through Cognitive Radio and Cluster-Assisted Downlink Hybrid Multiple Access <i>Umar Ghafoor Adil Masood Siddiqui</i> 2024 <i>International Conference on Frontiers of Information Technology (FIT)</i> , res.country(177,)	2024
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A Novel Approach for Quality of Service Based Cost Minimization in a Cognitive Radio Network <i>Umar Ghafoor Adil Masood Siddiqui Mudassar Ali</i> 2024 <i>4th International Conference on Digital Futures and Transformative Technologies (ICoDT2)</i> , res.country(177,)	2024
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Novel 6G Network: Maximizing Sum Rate and User Association by Minimizing Cost Ensuring QoS <i>Umar Ghafoor Adil Masood Siddiqui</i> 2024 <i>21st International Bhurban Conference on Applied Sciences and Technology (IBCAST)</i> , res.country(177,)	2024
Citations: N/A DOI: 10.1109/IBCAST61650.2024.10877248	
Holistic Optimization of Rate and EE in UAV-Assisted HetNets <i>Umar Ghafoor Mudassar Ali Adil Masood Siddiqui Waleed Ejaz</i> IEEE INFOCOM 2024 - IEEE Conference on Computer Communications Workshops (INFOCOM WKSHPS), res.country(177,)	2024
Citations: N/A DOI: 10.1109/INFOCOMWKSHPS61880.2024.10620714	
Secrecy Rate Maximization based on User Clustering in Hybrid-NOMA Assisted HetNets for B5G/6G <i>Umar Ghafoor Adil Masood Siddiqui Humayun Zubair Khan Mudassar Ali</i> <i>Proceedings - IEEE Global Communications Conference, GLOBECOM</i> , res.country(157,)	2023
Citations: N/A DOI: 10.1109/GLOBECOM54140.2023.10436806	
Admission, Association, and Rate Maximization in a UAV Assisted User Clustering Based Downlink Hybrid Multiple Access HetNets <i>Umar Ghafoor Mudassar Ali Adil Masood Siddiqui</i> 20th IBCAST--2023 <i>International Bhurban Conference on Applied Sciences & Technology</i> , res.country(177,)	2023
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Sum Rate Maximization Based on Mobile User Clustering Assisted Downlink H-NOMA in 4-Tier B5G HetNet <i>Umar Ghafoor Adil Masood Siddiqui Humayun Zubair Khan Mudassar Ali</i> 2023 <i>International Conference on Communication Technologies (ComTech)</i> , res.country(177,)	2023
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The Effect of Big Data Analytics in Enhancing Agility in Cybersecurity Incident Response <i>ayesha naseer Adil Masood Siddiqui</i> 2022 <i>16th International Conference on Open Source Systems and Technologies (ICOSST)</i> , res.country(282,)	2022
Citations: N/A DOI: 10.1109/ICOSST57195.2022.10016853	
Energy Efficiency Optimization for Hybrid NOMA based Beyond 5G Heterogeneous Networks <i>Umar Ghafoor Mudassar Ali Humayun Zubair Khan Adil Masood Siddiqui1 Muhammad Naeem Imran Rashid</i> 2021 <i>IEEE 94th Vehicular Technology Conference (VTC2021-Fall)</i> , res.country(233,)	2021
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Resource Allocation and Throughput Maximization in Decoupled 5G <i>Humayun Zubair Khan Mudassar Ali Muhammad Naeem Imran Rashid Adil Masood Siddiqui Shahid Mumtaz Muhammad Imran Humayun Zubair Khan Mudassar Ali Muhammad Naeem Imran Rashid Adil Masood Siddiqui Shahid Mumtaz Muhammad Imran Humayun Zubair Khan Mudassar Ali Muhammad Naeem Imran Rashid Adil Masood Siddiqui Shahid Mumtaz Muhammad Imran</i> IEEE Wireless Communications and Networking Conference (WCNC), res.country(121,)	2020

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Wideband compressed sensing based frequency hopping radio network identification <i>Faisal Akram Tauqeer Ahmed Dr Abdul Ghafoor Dr Adil Masood Siddiqui Imran Rashid</i> 22nd International Multitopic Conference, INMIC 2019 , res.country(177,)	2019
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Citations: N/A DOI: 10.1109/GCCE.2017.8229242	
Independent component analysis based assessment of linked gray and white matter in the initial stages of Alzheimer's disease using structural MRI phase images <i>Ahsan Bin Tufail Abdul Rehman Adil Masood Siddiqui Shahzad Younis Ali Abidi</i> 2013 International Computer Science and Engineering Conference (ICSEC) , res.country(217,)	2013
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Multiclass classification of initial stages of Alzheimer's disease using structural MRI phase images <i>Shahzad Younis Ahsan Bin Tufail Adil Ali Abidi</i> 2012 IEEE International Conference on Control System, Computing and Engineering,, res.country(157,)	2012
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Registration of Local Deformations in Images <i>Adil Masood Siddiqui Muhammad Saleem</i> This paper proposes a radial basis function(RBF) with finite support to register non rigid local deformations present in a image pair. The criteria to evaluate accuracy of local transformation function is also proposed. Results of proposed RBF are analyzed and compared with the existing RBFs, based on the evaluation criteria and similarity measures. Application of proposed approach for locally deformed medical images is also demonstrated. , res.country(177,)	2008
Citations: N/A DOI: 10.1109/ICEE.2008.4553938	
A Local Transformation Function for images <i>A.M. Siddiqi M. Saleem adil masood</i> 2007 International Conference on Electrical Engineering , res.country(177,)	2007
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