

Muwahida Liaquat

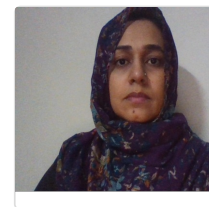
Associate Professor

College of Electrical & Mechanical Engineering

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About

Dr. Muwahida Liaquat is working as Associate Professor in the College of Electrical & Mechanical Engineering. Dr. Muwahida Liaquat has a PhD in Controls. Dr. Muwahida Liaquat has published 66 research articles & conference papers having a citation count of 232, carried out 2 projects and filed 2 intellectual property.

Qualifications

PhD in Controls NUST, Islamabad , Pakistan	2006 - 2013
MS in Electrical NUST, Islamabad , Pakistan	2004 - 2006
BE in Computers NUST, Islamabad , Pakistan	2001 - 2004

Experience

Associate Professor College of Electrical & Mechanical Engineering	2025- Present
Associate Professor College of Electrical & Mechanical Engineering	2022 - 2020
Associate Professor College of Electrical & Mechanical Engineering	2020 - 2022
Assistant Professor College of Electrical & Mechanical Engineering	2014 - 2022

Professional Memberships

PEC

Research Projects

National Projects	
Micro Controller Based depth Measurement Funding Agency: IGNITE Amount: PKR 69,271.00 Status: Completed	2019
Low Cost Efficient Deth Sounding Using Microcontroller Based Solution Funding Agency: NESCOM Amount: PKR 450,000.00 Status: Completed	2017

International Projects

Research Articles

Supertwisting and terminal sliding mode control of course keeping for ships by using particle swarm optimization <i>Muhammad Muzammal Islam Syed Ahmad Sifat Iftikhar Ahmad Muwahida Liaquat</i>	2022
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<p><i>Ocean Engineering</i> , Volume 266, Part 3, Article Number 112942</p> <p>Impact Factor: 4.372 Quartile: 1 Citations: 16</p> <p>DOI: https://doi.org/10.1016/j.oceaneng.2022.112942</p>		
<p>Dual-stage adaptive control of hybrid energy storage system for electric vehicle application</p> <p><i>Muhammad Arslan Muhammad Kashif Azeem Muhammad Arslan Iftikhar Ahmad Muhammad Kashif Azeem Muwahida Liaquat</i></p> <p><i>Journal of Energy Storage</i> , Volume 43, Article Number 103165</p> <p>Impact Factor: 8.907 Quartile: 1 Citations: 14</p> <p>DOI: 10.1016/j.est.2021.103165</p>		2021
<p>Model Predictive Control: Taking the idea of Artificial Pancreas a step forward for Diabetes Management</p> <p><i>Rahmat Ullah Safdar Muwahida Liaquat Syed Muhammad Tahir Zaidi Muhammad Usman Akram</i></p> <p><i>International Journal of Pharma Medicine and Biological Sciences</i>, Volume 10(4), Pages 142-147</p> <p>Impact Factor: N/A</p> <p>DOI: 10.18178/ijpmbs.10.4.142-147</p>		2021
<p>Effect of pharmacodynamical interaction between nutlin-3a and aspirin in theactivation of p53</p> <p><i>M. Suleman Awan Maria Aslam Muwahida Liaquat Aamir I. Bhatti Afrose Liaquat</i></p> <p><i>Journal of Theoretical Biology</i> , Volume 522, Article Number 110696</p> <p>Impact Factor: 2.405 Quartile: 3 Citations: 5</p> <p>DOI: https://doi.org/10.1016/j.jtbi.2021.110696</p>		2021
<p>Adaptive Nonlinear Control of Unified Model of Fuel Cell, Battery, Ultracapacitor and Induction Motor Based Hybrid Electric Vehicles</p> <p><i>Muhammad Muzammal Islam Syed Ahmad Siffat Iftikhar Ahmad Muwahida Liaquat Safdar Abbas Khan</i></p> <p><i>IEEE Access</i> , Volume 9, Pages 57486-57509</p> <p>Impact Factor: 3.476 Quartile: 2 Citations: 20</p> <p>DOI: 10.1109/ACCESS.2021.3072478</p>		2021
<p>Robust integral backstepping and terminal synergetic control of course keeping for ships</p> <p><i>Iftikhar Ahmad Muwahida Liaquat Syed Ahmad Siffat Muzammul Islam</i></p> <p><i>Ocean Engineering</i> , Volume 221, Article Number 108532</p> <p>Impact Factor: 4.372 Quartile: 1 Citations: 49</p> <p>DOI: 10.1016/j.oceaneng.2020.108532</p>		2021
<p>Variants of the Sliding Mode Control in Presence of External Disturbance for Quadrotor</p> <p><i>Muwahida Liaquat Irfan Ahmed Fahad Mumtaz Usman Ali Hameed Ullah</i></p> <p><i>IEEE Access</i> , Volume 8, Pages 227810-227824</p> <p>Impact Factor: 3.367 Quartile: 2 Citations: 17</p> <p>DOI: 10.1109/ACCESS.2020.3041678</p>		2020
<p>Study of Formation Control of Mobile Robots</p> <p><i>muwahida liaquat Shakir Mahmood Zeeshan Ahmad Ahsan Zaheer Abdullah Khan</i></p> <p><i>International Journal of Mechanical Engineering and Robotics Research</i>, Vol. 9 (1) , 06 Pages</p> <p>Impact Factor: N/A</p>		2020
<p>Nonlinear Control for Growth of Cancerous Tumor Cells</p> <p><i>muwahida liaquat Imran Lodhi Iftikhar Ahmad Muhammad Uneeb</i></p> <p><i>IEEE Access</i> , Volume 7, Pages 177628-177636</p> <p>Impact Factor: 3.745 Quartile: 1 Citations: 16</p> <p>DOI: 10.1109/ACCESS.2019.2953254</p>		2019
<p>Lower order controller design using weighted singular perturbation approximation</p> <p><i>Muwahida Liaquat Muhammad Raees Furquan Azhar Umair Zulfiqar</i></p> <p><i>Turkish Journal of Electrical Engineering and Computer Sciences</i>, Volume 27, Pages 3935-3950</p> <p>Impact Factor: 0.625 Quartile: 4</p> <p>DOI: 10.3906/elk-1807-4</p>		2019
<p>Reduced Order Controller Design for Symmetric, Non-Symmetric and Unstable Systems Using Extended Cross-Gramian</p> <p><i>muwahida liaquat Muhammad Raees Furquan Azhar Umair Zulfiqar Deepak Kumar</i></p> <p><i>Machines</i> , volume 7, Issue no 48</p> <p>Impact Factor: 0 Citations: 1</p> <p>DOI: 10.3390/machines7030048</p>		2019

Time/frequency-limited positive-real truncated balanced realizations <i>Muwahida Liaquat Muhammad Imran Abdul Ghafoor Umair Zulfiqar</i> <i>IMA Journal of Mathematical Control and Information</i> , Pages 1-18 Impact Factor: 1.00 Quartile: 3 Citations: 16 DOI: 10.1093/imamci/dny039	2018
Error minimizing linear regulation for discrete-time systems <i>Rahat Ali Mohammad Bilal Malik Fahad Mumtaz Malik Muwahida Liaquat</i> <i>Transactions of the Institute of Measurement and Control</i> , Volume 40, Issue: 4 Pages: 1274-1280 Published: FEB 2018 Impact Factor: 1.956 Quartile: 3 Citations: 2 DOI: 10.1177/0142331216681664	2018
Model reduction of discrete-time systems in limited intervals <i>Muwahida Liaquat Umair Zulfiqar</i> <i>Turkish Journal of Electrical Engineering and Computer Sciences</i> , Volume 26, No. 1, Article 26 Impact Factor: 0.625 Quartile: 4 Citations: 2 DOI: 10.3906/elk-1706-124	2018
A Passivity-Preserving Frequency-Weighted Model Order Reduction Technique <i>Umair Zulfiqar Waseem Tariq Li Li Muwahida Liaquat</i> <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , Volume: 64, Issue: 11, Page 1327-1331 Impact Factor: 2.450 Quartile: 2 Citations: 15 DOI: DOI:10.1109/TCSII.2017.2685440	2017
A New Frequency Limited Interval Gramians based Model Order Reduction Technique <i>Muwahida Liaquat Umair Zulfiqar Muhammad Imran Abdul Ghafoor</i> <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , Volume: 64 Issue: 6 Pages: 680-684 Impact Factor: 2.450 Quartile: 2 Citations: 20 DOI: 10.1109/TCSII.2016.2599111	2017
A Passivity Preserving Frequency-Weighted Model Order Reduction Technique <i>Umair Zulfiqar Waseem Tariq Muwahida Liaquat Li Li</i> <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , Volume 64, Issue 11, Pages 1327-1331 Impact Factor: 2.450 Quartile: 2 Citations: 15 DOI: 10.1109/TCSII.2017.2685440	2017
Control of Under Actuated System with input Constraints <i>Atif Ali Muwahida Liaquat Muhammad Bilal Malik</i> <i>Pakistan Journal of Engineering and Applied Sciences</i> , Volume 19, Pages 51-62 Impact Factor: - DOI: -	2016
Control of Under-Actuated System with input Constraints <i>Atif Ali Mohammad Bilal Malik Muwahida Liaquat</i> <i>Pakistan Journal of Engineering and Applied Sciences</i> , Volume 19, Pages 51-72 Impact Factor: 0 DOI: https://journal.uet.edu.pk/ojs_old/index.php/pjeas/article/view/282/221	2016
Sampled data output regulation of n-link robotic manipulator using a realizable reconstruction filter <i>Muwahida Liaquat Mohammad Bilal Malik</i> <i>Robotica</i> , Volume 34, Issue 4, Pages 900-912 Impact Factor: 1.554 Quartile: 3 Citations: 6 DOI: 10.1017/S0263574714001933	2016
Output Regulation for Linear Sampled Data Systems Using a Realizable Reconstruction Filter <i>Muwahida Liaquat Mohammad Bilal Malik Fahad Mumtaz Malik</i> <i>Arabian Journal for Science and Engineering</i> , Volume 39, Issue 5, Pages 3895-3905 Impact Factor: N/A Citations: 8 DOI: 10.1007/s13369-014-0986-x	2014
On sampled data regulation of feedback linearizable systems using a realizable reconstruction filter <i>Muwahida Liaquat Mohammad Bilal Malik</i> <i>International Journal of Control Automation and Systems</i> , Volume: 11 Issue: 6 Pages: 1162-1169 Impact Factor: 1.065 Quartile: 3 Citations: 7 DOI: 10.1007/s12555-013-0032-x	2013

Muwahida Liaquat Mohammad Bilal Malik

International journal of computer theory and engineering, Vol. 4, No. 5, pages 735-739

Impact Factor: -

DOI: <https://pdfs.semanticscholar.org/9ec2/a69bd1bd45d8a1c88f495397b13b59d99de3.pdf>

Conference Proceedings

Co-operative Formation Control of Multiple Unmanned Aerial Vehicles Via Distributive Observer

2022

Approach

Rida Anum Muwahida Liaquat Victor Sreeram Umair Zulfiqar

2022 Australian & New Zealand Control Conference (ANZCC), res.country(13,)

Citations: N/A

DOI: 10.1109/ANZCC56036.2022.9966862

Osteo-Doc: KI-Grading of Osteoarthritis using Deep-Learning

2022

Haider Masood Eisha Hassan Anum Abdul Salam Muwahida Liaquat

2022 2nd International Conference on Digital Futures and Transformative Technologies (ICoDT2), res.country(177,)

Citations: N/A

DOI: 10.1109/ICoDT255437.2022.9787470

Reduced Order Damping Controller for Power System Design via Frequency weighted Model Reduction

2021

Muhammad Mudassar Umair Zulfiqar Victor Sreeram Muwahida Liaquat Ahmad Jazlan

2021 Australian & New Zealand Control Conference (ANZCC), res.country(170,)

Citations: N/A

DOI: 10.1109/ANZCC53563.2021.9628383

Fractional order PVT model design and estimation using the fractional observer

2021

Amer Aziz Muwahida Liaquat Amer Iqbal Bhatti Lahoucine Ouhsaine

18th International Conference on Informatics in Control, Automation and Robotics, ICINCO 2021, res.country(109,)

Citations: N/A

DOI: 10.5220/0010512006490655

A Non-Linear Improved Double-Integral Sliding Mode Controller (IDI-SMC) for Modeling and Simulation of 6 (DOF) Quadrotor system

2020

Irfan Ahmad Muwahida Liaquat Owais Zarin Khan Fahad Mumtaz Malik Irfan Ahmad Muwahida Liaquat Owais Zarin Khan Fahad Mumtaz Malik

6th International Conference on Electrical Engineering, Control and Robotics, res.country(48,)

Citations: N/A

DOI: 10.1088/1757-899X/853/1/012035

Microcontroller based acoustic signal processing

2019

Shahid Aziz Khan, Haris Naeem Abbasi Asim Ismail muwahida liaquat Aqib Pervaiz

7th International Conference on Control, Mechatronics and Automation (ICCMA), res.country(165,)

Citations: N/A

DOI: DOI: 10.1109/ICCMA46720.2019.8988612

Integral Backstepping based MPPT controller for photo-voltaic system using SEPIC converter

2019

Rida Abbas Shirazi Iftikhar Ahmad Muhammad Arsalan Muwahida Liaquat

7th International Conference on Control, Mechatronics and Automation (ICCMA), res.country(165,)

Citations: 3

DOI: DOI: 10.1109/ICCMA46720.2019.8988614

Ball and Beam Tracking Application with Linear Quadratic Control Design

2019

Rahat Ali Fahad Mumtaz Malik Muwahida Liaquat Mustansar Shah

8th International Conference on Systems and Control, res.country(136,)

Citations: N/A

DOI: DOI: 10.1109/ICSC47195.2019.8950644

Unknown Exogenous Input Estimation For Infinitely Observable Complex Biological Descriptor Systems

2019

Mahrugh Muwahida Liaquat

IEEE 10th Annual Information Technology, Electronics and Mobile Communication Conference (IEMCON), res.country(38,)

Citations: N/A

DOI: DOI: 10.1109/IEMCON.2019.8936309

Cost Efficient Depth Sounding Using Microcontroller Based Solution <i>Shahid Aziz Khan Haris Naeem M. Sohaib Osama Ali Salman Shahid Asim Ismail muwahida liaquat</i> <i>2019 5th International Conference on Control, Automation and Robotics (ICCAR), res.country(48,)</i> Citations: N/A DOI: 10.1109/ICCAR.2019.8813472	2019
Cooperative Adaptive Cruise Control with Fuel Efficiency Using PMP Technique <i>Ehtsham Rasool Aamer Iqbal Bhatti Adeel Mehmood muwahida liaquat</i> <i>2019 5th International Conference on Control, Automation and Robotics (ICCAR), res.country(48,)</i> Citations: N/A DOI: 10.1109/ICCAR.2019.8813322	2019
Trajectory Planning and Control for Lane-Change of Autonomous Vehicle <i>Adeel Mehmood Aamer Iqbal Bhatti Ehtsham Rasool muwahida liaquat</i> <i>2019 5th International Conference on Control, Automation and Robotics (ICCAR), res.country(48,)</i> Citations: N/A DOI: 10.1109/ICCAR.2019.8813737	2019
Fault reconstruction using sliding mode observer for LTI systems: A survey <i>Muwahida Liaquat Mahrukh</i> <i>2018 IEEE 9th Annual Information Technology, Electronics and Mobile Communication Conference (IEMCON) , res.country(38,)</i> Citations: N/A DOI: 10.1109/IEMCON.2018.8615018	2018
Output Regulation of n-Link Robotic Manipulator Using Feedback Linearizable Systems under the Approach of Cascade High Gain Observers <i>Muwahida Liaquat Muhammad Saad Rida Abbas Shirazi</i> <i>6th International Conference on Control, Mechatronics and Automation, ICCMA, res.country(113,)</i> Citations: N/A DOI: 10.1109/ICCSCE.2017.8284409	2018
Leader-following Sample Data Formation Control of Nonholonomic Robots with Switching Network Topologies <i>Muwahida Liaquat Mairaj Ali Arslan Safdar</i> <i>22nd International Conference on System Theory, Control and Computing (ICSTCC), res.country(188,)</i> Citations: N/A DOI: 10.1109/ICSTCC.2018.8540691	2018
Cross-Gramian Based Lower-Order Controller Design <i>Muwahida Liaquat Muhammad Raees Furquan Azhar Umair Zulfiqar</i> <i>Proceedings of the 6th International Conference on Control, Mechatronics and Automation, res.country(113,)</i> Citations: N/A DOI: 10.1145/3284516.3284543	2018
Comparison between Distributed Observer and Adaptive Distributed Observer <i>Mairaj Ali Muwahida Liaquat</i> <i>8th International Conference on Electronics Information and Emergency, res.country(48,)</i> Citations: N/A DOI: 10.1109/ICEIEC.2018.8473554	2018
EGR-VGT Equipped Heavy Duty Diesel Engine Calibration and Air Path Control for Optimized Nitric Oxide (NOx) Emissions <i>Muhammad Haras Aamir Iqbal Bhatti Muwahida Liaquat</i> <i>Asian Control Conference, 2017, res.country(13,)</i> Citations: N/A DOI: 10.1109/ASCC.2017.8287594	2017
Output Regulation of Feedback Linearizable System (Single Link Robot Manipulator): A Cascaded High Gain Observer Approach <i>Muhammad Saad Muwahida Liaquat</i> <i>7th IEEE International Conference on Control Systems, Computing and Engineering, res.country(157,)</i> Citations: N/A DOI: 10.1109/ICCSCE.2017.8284409	2017

Fault Tolerant Tracking Control of Unmanned Aerial Vehicle Using Linear Quadratic Gaussian with Integral Reconfiguration Control <i>Muwahida Liaquat</i> <i>International Automatic Control Conference, Taiwan, 2017, res.country(227,)</i> Citations: N/A DOI: 10.1109/CACS.2017.8284243	2017
A Nonlinear High-Gain Observer for n-link Robot Manipulator Which has Measurement Noise in a Feedback Control Framework <i>Dr. Muwahida Liaquat Muhammad Azeem Javaid Muhammad Saad</i> <i>17th International Conference on Control, Automation and Systems, res.country(121,)</i> Citations: N/A DOI: 10.23919/ICCAS.2017.8204329	2017
Leader-Following Formation Control of Nonholonomic Robots with Switching Network <i>Arslan Safdar Muwahida Liaquat Waqar Ali Faiza Nawaz</i> <i>17th International Conference on Control, Automation and Systems, res.country(121,)</i> Citations: N/A DOI: 10.23919/ICCAS.2017.8204441	2017
Landing Control of Unmanned Aerial Vehicle using Continuous Model Predictive Control <i>Muwahida Liaquat Naila Qayyum Aamer Iqbal Bhatti</i> <i>29th Chinese Control and Decision Conference held from 28-30 May 2017 in China, res.country(48,)</i> Citations: N/A DOI: 10.1109/CCDC.2017.7978809	2017
Linear Quadratic Tracking in Fault Tolerant Control of DC Motor in the Presence of Actuator Faults <i>Muwahida Liaquat Umm-e-Aimen Rahat Ali Qandeel Fazal</i> <i>6th International Conference on Systems and Control (ICSC), res.country(62,)</i> Citations: N/A DOI: 10.1109/ICoSC.2017.7958738	2017
Optimal Output Quadratic Regulation <i>Muwahida Liaquat Rahat Ali Fahad Mumtaz Malik Mohammad Bilal Malik</i> <i>6th International Conference on Intelligent and Advanced System held from 15-17 Aug 2016 in Malaysia res.country(157,)</i> Citations: N/A DOI: 10.1109/ICIAS.2016.7824142	2016
Robust fault tolerant control of an unmanned aerial vehicle in the presence of actuator faults <i>Muwahida Liaquat Qandeel Fazal Maheen Iftikhar</i> <i>2016 IEEE/ION Position, Location and Navigation Symposium (PLANS), res.country(233,)</i> Citations: N/A DOI: 10.1109/PLANS.2016.7479770	2016
Robust fault tolerant control of a DC motor in the presence of actuator faults <i>Muwahida Liaquat Qandeel Fazal Neelma Naz</i> <i>2015 16th International Conference on Sciences and Techniques of Automatic Control and Computer Engineering (STA), res.country(221,)</i> Citations: N/A DOI: 10.1109/STA.2015.7505169	2015
Robust Fault Tolerant Control of a DC Motor in the Presence of Actuator Faults <i>Muwahida Liaquat Qandeel Fazal Neelma Naz</i> <i>2015 16th International Conference on Sciences and Techniques of Automatic Control and Computer Engineering (STA), res.country(221,)</i> Citations: N/A DOI: 10.1109/STA.2015.7505169	2015
Optimal Sample-Data Regulation based on Realizable Reconstruction Filter <i>Muwahida Liaquat Saad Ullah</i> <i>9th International Conference on Electrical and Electronics Engineering, res.country(224,)</i> Citations: N/A DOI: http://www.eleco.org.tr/openconf_2015/modules/request.php?module=oc_proceedings&action=view.php&id=146&a=Accept+as+Poster	2015
Cooperative Output Regulation for Higher-Order Linear Multi-agent Systems with Fixed and Switching Topologies <i>Muwahida Liaquat Waqar Ali</i>	2015

2015 9th International Conference on Electrical and Electronics Engineering (ELECO), res.country(224,)	
Citations: N/A	
DOI: https://www.researchgate.net/publication/289433675_Cooperative_Output_Regulation_for_Higher-order_Linear_Multi-agent_Systems_with_Fixed_and_Switching_Topologies	
Sampled data output regulation of a linear system based on finite time impulsive observer	2015
<i>Atif Qayyum Rahat Ali Mohammad Bilal Malik Fahad Mumtaz Malik Muwahida Liaquat</i>	
2015 XXV International Conference on Information, Communication and Automation Technologies (ICAT), res.country(17,)	
Citations: N/A	
DOI: 10.1109/ICAT.2015.7340502	
Sampled Data Output Regulation of a Linear System based on Finite Time Impulsive Observer	2015
<i>Atif Qayyum Rahat Ali Mohammad Bilal Malik Fahad Mumtaz Malik Muwahida Liaquat</i>	
2015 XXV International Conference on Information, Communication and Automation Technologies (ICAT), res.country(17,)	
Citations: N/A	
DOI: 10.1109/ICAT.2015.7340502	
Scenario based robust control design for uninterruptible power supplies	2015
<i>Muwahida Liaquat Aisha Qamar Asad Ullah Awan Kunwar Fraz Ahmed Khan</i>	
2015 15th International Conference on Control, Automation and Systems (ICCAS), res.country(121,)	
Citations: N/A	
DOI: 10.1109/ICCAS.2015.7364796	
Improving Vehicle Handling and Stability under Uncertainties using Probabilistic Approach	2015
<i>Muwahida Liaquat Muhammad Mohsin Khan Asad Ullah Awan</i>	
16th IFAC Workshop on Control Application of Optimization, res.country(57,)	
Citations: N/A	
DOI: 10.1016/j.ifacol.2015.11.094	
Optimal output regulation on sample-data systems	2015
<i>Muwahida Liaquat Saad Ullah</i>	
2015 International Conference on Control, Electronics, Renewable Energy and Communications (ICCEREC), res.country(100,)	
Citations: N/A	
DOI: 10.1109/ICCEREC.2015.7337059	
Robust Tracking of Quadrotor UAV using RISE Controller with Input Saturation	2015
<i>Muwahida Liaquat Sadia Waheed Kunwar Faraz Ahmed Khan Asad Ullah Awan</i>	
2015 34th Chinese Control Conference (CCC), res.country(48,)	
Citations: N/A	
DOI: 10.1109/ChiCC.2015.7260499	
Adaptive Control of Air-to-Air Missile using Multilayer NN Feedforward and RISE Feedback terms	2015
<i>Muwahida Liaquat Haleema Saadia Asad Ullah Awan Kunwar Faraz Ahmed Khan Sadia Waheed</i>	
2015 10th Asian Control Conference: Emerging Control Techniques for a Sustainable World, ASCC 2015, res.country(157,)	
Citations: N/A	
DOI: 10.1109/ASCC.2015.7244757	
Scenario based Approach for Control Design for DC-DC Buck Converter	2015
<i>Muwahida Liaquat Aisha Qamar Kunwar Faraz Ahmed Khan Asad Ullah Awan</i>	
2015 International Conference on Control, Automation and Robotics, res.country(197,)	
Citations: N/A	
DOI: 10.1109/ICCAR.2015.7166010	
Variable Robustness Control Design for System of Aerospace Vehicle	2015
<i>Muwahida Liaquat Syed Zeeshan Haider Kunwar Faraz Ahmed Khan Asad Ullah Awan</i>	
2015 International Conference on Control, Automation and Robotics, res.country(197,)	
Citations: N/A	
DOI: 10.1109/ICCAR.2015.7166011	
Human Detection in Sensitive Security areas through Recognition of Omega Shapes using MACH Filters	2015
<i>Muwahida Liaquat Saad Rehman Farhan Riaz Ali Hassan Rupert Young</i>	
Optical Pattern Recognition XXVI Conference, res.country(233,)	
Citations: N/A	
DOI: 10.1117/12.2176841	

Sampled-Data Regulation of a Class of Time Varying Systems Based on a Realizable Reconstruction Filter <i>Muwahida Liaquat Muhammad Bilal Malik</i> 2013 IEEE International Conference on Smart Instrumentation, Measurement and Applications (ICSIMA), res.country(157,) Citations: N/A DOI: 10.1109/ICSIMA.2013.6717916	2013
A Realizable Reconstruction Filter for Sampled data Systems <i>Muwahida Liaquat Mohammad Bilal Malik</i> 2011 9th IEEE International Conference on ASIC, res.country(48,) Citations: N/A DOI: 10.1109/ASICON.2011.6157351	2011
Data association for multi-object tracking using weighted paths <i>Muwahida Liaquat M.Bilal Malik Khalid Munawar</i> 2009 IEEE Student Conference on Research and Development (SCORED), res.country(157,) Citations: N/A DOI: 10.1109/SCORED.2009.5443134	2009

Editorial Activities

IET Control Theory and Applications Reviewed Papers for Journals Impact Factor: 2.670	2023
 Reviewed Papers for Journals Impact Factor: 1.132	2023
Isa Transactions Reviewed Papers for Journals Impact Factor: 5.911	2022
 Reviewed Papers for Journals Impact Factor: 0	2022
 Reviewed Papers for Journals Impact Factor: 0	2022
 Reviewed Papers for Journals Impact Factor: 10.215	2022
 Reviewed Papers for Journals Impact Factor: 5.468	2022
 Reviewed Papers for Journals Impact Factor: 2.814	2021
 Reviewed Papers for Journals Impact Factor: 2.779	2021
 Reviewed Papers for Journals Impact Factor: 2.149	2021
 Reviewed Papers for Journals Impact Factor: 1.034	2020
 Reviewed Papers for Journals Impact Factor: 1.034	2020

Reviewed Papers for Journals Impact Factor: 1.161	2020
Reviewed Papers for Journals Impact Factor: Scopus	2020
Reviewed Papers for Journals Impact Factor: 3.426	2020
Reviewed Papers for Journals Impact Factor: 7.503	2020
Reviewed Papers for Journals Impact Factor: 2.003	2019
Reviewed Papers for Journals Impact Factor: 2.469	2019

Intellectual Property

Copyrights

Osteodoc an AI based Application for Osteoarthritis Status: Filed	2022
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Patents

Industrial Designs

PCB No. 10 of Voltage Regulator Assembly of Tank (T59/69) Status: Filed	2019
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Trademarks