

Saheeb Ahmed Kayani

Assistant Professor

College of Electrical & Mechanical Engineering

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About

Dr. Saheeb Ahmed Kayani is working as Assistant Professor in the College of Electrical & Mechanical Engineering. Dr. Saheeb Ahmed Kayani has a PhD in Mechanical Engineering. Dr. Saheeb Ahmed Kayani has published 29 research articles & conference papers having a citation count of 27, carried out 0 projects and filed 8 intellectual property.

Qualifications

PhD in Mechanical Engineering Capital University of Science and Technology, Islamabad , Pakistan	2016 - 2024
MS in Mechanical Engineering NUST, Islamabad , Pakistan	2004 - 2007
BE in Mechatronics Engineering NUST, Islamabad , Pakistan	2001 - 2004

Experience

Assistant Professor College of Electrical & Mechanical Engineering	2023- Present
Assistant Professor College of Electrical & Mechanical Engineering	2022 - 2023
Assistant Professor College of Electrical & Mechanical Engineering	2013 - 2022
Lecturer College of Electrical & Mechanical Engineering	2011 - 2013
Demonstrator College of Electrical & Mechanical Engineering	2007 - 2011
Asst Prof NUST , H-12, Islamaabad	2007 - 2022

Awards

CEME Best Innovator Award NUST College of E&ME Best Innovator Award.	2020
7th FPCCI Achiev. Award Medal received from the President of Pakistan in a ceremony held in the Aiwan-e-Sadr in the award category of scientific and industrial research.	2019
Award for Tech. Licensing Special award for technology and intellectual property rights licensing to national industry.	2019
Productive Scientist Name included in the directory of Productive Scientists of Pakistan (2017) published by Pakistan Council for Science and Technology, Government of Pakistan. Ranked 64th most productive scientist in the discipline of engineering sciences and 36th most productive scientist in the same discipline under the age of 40 years.	2018
Comdt. Med. of Excellence Medal and merit certificate for signing of Pakistan's first academia-industry intellectual property licensing agreement.	2018
SRC Chem. Tech. Award Award for indigenous development of leather fleshing and shaving blades by SRC (Pvt) Ltd, Lahore, at third innovation summit organized by UET Peshawar, Peshawar.	2017
Technology Award Award for indigenization of leather fleshing and shaving blades technology at third innovation summit organized by UET Peshawar, Peshawar.	2017
Productive Scientist Name included in the directory of Productive Scientists of Pakistan (2016) published by Pakistan Council for Science and Technology, Government of Pakistan. Ranked 26th most productive scientist in the discipline of engineering sciences and 14th most productive scientist under the age of 40 years in the same discipline.	2017
Research Prod. Award Research productivity award (2016) by Pakistan Council of Science and Technology, Government of Pakistan. Ranked 24th most productive scientist in Pakistan in 2016 and category 'A' scientist.	2017
SATHA Innovation Award Medal and certificate awarded by South Asian Chapter of Triple Helix Association, Italy, at second innovation summit organized by UET Peshawar, Peshawar.	2016
CWT (Pakistan) Fellowship Charles Wallace Visiting Fellowship by Charles Wallace Pakistan Trust, UK and British Council.	2014
Productive Scientist Name included in the directory of Productive Scientists of Pakistan (2013) published by Pakistan Council for Science and Technology, Government of Pakistan. Ranked 13th most productive scientist in the discipline of engineering sciences.	2014
Winner, Tech. Paper Comp. Winner of technical paper competition in All Pakistan Engineering Conference organized by IEE and Ghulam Ishaq Khan Institute of Engineering Sciences and Technology, Swabi.	2005

Professional Memberships

PEC	Since 2006
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Research Articles

Exploring the synergy between sustainability and resilience in supply chains under stochastic demand conditions and network disruptions <i>Saheeb Ahmed Kayani Salman Sagheer Warsi</i> <i>Results in Engineering</i> , Volume:26, Article Number 104954 Impact Factor: 6.000 Quartile: 1 DOI: https://doi.org/10.1016/j.rineng.2025.104954	2025
A Smart Decision Support Framework for Sustainable and Resilient Supplier Selection and Order Allocation in the Pharmaceutical Industry <i>Saheeb Ahmed Kayani Salman Sagheer Warsi Raja Awais Liaqait</i> <i>Sustainability</i> , Volume 15, Issue 7, Article Number 5962 Impact Factor: 3.9 Quartile: 2 Citations: 23	2023

DOI: <https://doi.org/10.3390/su15075962>

Mangla Dam Raising: A Review <i>Shaheeb Ahmed Kayani</i> <i>Science, Technology and Development</i> , Volume 32, Issue 2, Pages 149-153 Impact Factor: 0 DOI: -	2013
Identification, Testing and Analysis of a Meteorite Debris from Jhelum, Pakistan <i>SAHEEB AHMED KAYANI</i> <i>Science Technology and Development</i> , Volume 31, Issue 3, Pages 280-287 Impact Factor: 0 DOI: -	2012
Mineralogical and Thermal Analyses of a Bangle Shard from Harrappa, an Indus Valley Settlement in Pakistan <i>Saheeb Ahmed Kayani Rehan ul Haq Siddiqui</i> <i>Analele Stiintifice ale Universitatii "Al. I. Cuza" din Iasi - Seria Geologie</i> , Vol. 57, No. 1, pp. 69-73 Impact Factor: 0	2011
Using Combustion Analysis to Determine Origins and Nature of a Rare Meteorite Debris <i>Shaeeb Ahmed Kayani</i> <i>Military Technologist</i> , Pages 46-49 Impact Factor: 0 DOI: -	2010
Global Darwin: Long Kept under Wraps in Pakistan <i>Saheeb Ahmed Kayani</i> <i>Nature</i> , Volume 462, Issue 7276, Pages 984-984 Impact Factor: 34.48 Quartile: 1 Citations: 1 DOI: 10.1038/462984b	2009
A Novel Methodology for Automated Synthesis of Mechatronic Systems Designs Using Bond-Graphs and Genetic Programming <i>Saheeb Ahmed Kayani Afzaal M. Malik</i> <i>NUST Journal of Engineering Sciences</i> , Volume 1, Issue 1, Pages 18-29 Impact Factor: 0 DOI: 10.24949%2Fnpj.v1i1.23	2008
Verifying Experiment for Automated Design of Mechatronic Systems using Bond-Graph Modelling and Simulation and Genetic Programming <i>Muhammad Afzaal Malik Saheeb Ahmad Kayani</i> <i>International Journal of Computer Applications in Technology</i> , Vol. 32, No. 3, Pages 173-180 Impact Factor: 0 Citations: 1 DOI: 10.1504/IJCAT.2008.020952	2008
Review and Implementation of a Novel Methodology for Automated Design of Mechatronic Systems <i>Shaheeb Ahmed Kayani</i> <i>Journal of Engineering and Applied Sciences</i> , Vol. 27, No. 1 Impact Factor: -	2008
On Automated Design of Mechatronic Systems through Bond-Graphs and Genetic Programming <i>Saheeb Ahmed Kayani</i> <i>IEEE Multi Disciplinary Engineering Education Magazine</i> , Volume 2, Issue No 4, Pages 15-17 Impact Factor: 0 DOI: -	2007

Conference Proceedings

Elemental composition of a bangle shard from Harrappa, an Indus valley settlement <i>Saheeb Ahmed</i> <i>10th Swiss Geoscience Meeting</i> , res.country(43,) Citations: N/A DOI: N/A	2012
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Mangla dam raising project (Pakistan): general review and socio-spatial impact assessment	2012
<i>Saheeb Ahmed</i> <i>10th Swiss Geoscience Meeting</i> , res.country(43,)	
Citations: N/A	
DOI: https://memsic.ccsd.cnrs.fr/GIP-BE/hal-00719226	
X-ray diffraction and thermal analyses of a bangle shard from an Indus valley settlement	2011
<i>Kayani Saheeb-Ahmed</i> <i>9th Swiss Geoscience Meeting</i> , res.country(43,)	
Citations: N/A	
DOI: N/A	
Psychosocial effects of natural (cosmic) phenomena: a case study	2010
<i>Saheeb Ahmed Kayani</i> <i>8th Swiss Geoscience Meeting</i> , res.country(43,)	
Citations: N/A	
DOI: N/A	
Combustion analysis of a meteorite debris	2010
<i>Saheeb Ahmed Kayani</i> <i>8th Swiss Geoscience Meeting</i> , res.country(43,)	
Citations: N/A	
DOI: N/A	
Establishing the origins of a meteorite debris by using carbon abundance	2010
<i>Saheeb Ahmed Kayani</i> <i>International Symposium on Geology of Natural Systems</i> , res.country(188,)	
Citations: N/A	
DOI: -	
Identifying a meteorite ablation debris near village Lehri in Potohar region of Pakistan	2009
<i>Saheeb Ahmed Kayani</i> <i>Geological Society of New Zealand and New Zealand Geophysical Society Joint Annual Conference</i> , res.country(170,)	
Citations: N/A	
DOI: N/A	
On design and fabrication of a prototype teleoperated mobile surveillance robot	2009
<i>Saheeb Ahmed Kayani Waqar Haider Bhatti Khawar Khalil Jarra</i> <i>2009 International Conference on Emerging Technologies</i> , res.country(177,)	
Citations: N/A	
DOI: 10.1109/ICET.2009.5353184	
Using combined XRD-XRF analysis to identify meteorite ablation debris	2009
<i>Saheeb Ahmed Kayani</i> <i>International Conference on Emerging Technologies</i> , res.country(177,)	
Citations: N/A	
DOI: -	
Theoretical foundations of automated synthesis using bond-graphs and genetic programming	2008
<i>SAHEEB AHMED</i> <i>2008 4th International Conference on Emerging Technologies</i> , res.country(177,)	
Citations: N/A	
DOI: 10.1109/ICET.2008.4777466	
Bond-graphs + genetic programming: analysis of on automatically synthesized rotary mechanical system	2008
<i>SAHEEB AHMED AFZAAL MALIK</i> <i>10th Genetic and Evolutionary Computation Conference</i> , res.country(233,)	
Citations: N/A	
DOI: N/A	
Search for human competitive results in open ended automated synthesis of a primordial mechatronic system	2008
<i>SAHEEB AHMED</i> <i>10th Annual Genetic and Evolutionary Computation Conference held from 12-16 July 2008 in Atlanta, United States</i> , res.country(233,)	

Citations: N/A	
DOI: N/A	
Genetic programming for wireless internet access point configuration in a small Pakistani town	2007
SAHEEB AHMED AFZAAL MALIK	
3rd International Conference on Emerging Technologies, res.country(177,)	
Citations: N/A	
DOI: 10.1109/ICET.2007.4516331	
Combining bond-graphs with genetic programming for unified/automated design of mechatronic or multi domain dynamic systems	2007
SAHEEB AHMED AFZAAL MALIK	
Genetic and Evolutionary Computation Conference (GECCO-2007), res.country(231,)	
Citations: N/A	
DOI: N/A	
Automated design of mechatronic systems using bond-graph modeling and simulation and genetic programming	2007
SAHEEB AHMED AFZAAL MALIK	
2007 International Bhurban Conference on Applied Sciences & Technology, res.country(177,)	
Citations: N/A	
DOI: 10.1109/IBCAST.2007.4379917	
Physical and mathematical modeling of NUSTBOT-I through bond-graph technique	2006
Saheeb Ahmed Kayani	
2006 IEEE International Multitopic Conference , res.country(177,)	
Citations: N/A	
DOI: 10.1109/INMIC.2006.358210	
Modeling and simulation of biped kinematics using bond-graphs	2006
SAHEEB AHMED Afzaal M. Malik	
2006 International Conference on Emerging Technologies, res.country(177,)	
Citations: N/A	
DOI: 10.1109/ICET.2006.336001	

Editorial Activities

2590-1230	2025
Reviewed Papers for Journals	
Impact Factor: 6.0	
	2024
Reviewed Papers for Journals	
Impact Factor: 6.0	
	2019
Reviewed Papers for Journals	
Impact Factor: 3.21	
	2018
Reviewed Papers for Journals	
Impact Factor: 3.21	

Copyrights

Patents

A Controlled Hardness Method of Production for Leather Fleshing and Shaving Blades Status: Filed	2019
A Simplified Method of Production for Leather Fleshing and Shaving Blades Status: Filed	2019
Mini Wheel for Mobile Robot Status: Granted	2015

Industrial Designs

Two DOF Adjustable Metal Strip Feeding Device (Class-01) Status: Granted	2019
Specialized Rig for Post-Fabrication Processing of Leather Fleshing / Shaving Blades (Class-01) Status: Granted	2018
Leather Shaving Blade (Class-01) Status: Licensed	2018
Leather Fleshing Blade (Class-01) Status: Licensed	2018
Induction Heating Coil for Leather Fleshing / Shaving Blade (Class-01) Status: Granted	2018

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