Mujtaba Hassan Agha

Professor

NUST Business School

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2006 - 2009

About

Dr. Mujtaba Hassan Agha is working as Professor in the NUST Business School. Dr. Mujtaba Hassan Agha has a PhD in Industrial Engineering. Dr. Mujtaba Hassan Agha has published 41 research articles & conference papers having a citation count of 720, carried out 6 projects and filed 0 intellectual property.

Qualifications

PhD in Industrial Engineering

Institut National Polytechnique de Toulouse , France	
MS in Fluid Mechanics & Energy Transfer Institut National Polytechnique de Toulouse , France	2005 - 2006
MBA in Human Resource Management NUST, Islamabad , Pakistan	2003 - 2006
BS in Mechanical Engineering Ghulam Ishaq Khan Institute of Science & Technology , Pakistan	1997 - 2001
Experience	
Professor NUST Business School	2023- Present
Professor NUST Business School	2021 - 2023
Professor NUST Business School	2019 - 2021
Associate Professor Capital University of Science and Technology (CUST), Kahuta Road Islamabad	2011 - 2019
Assistant Professor National University of Sciences and Technology , H-12, Islamabad	2010 - 2011
Manager National Engineering and Scientific Commission , Near Wah Cantt Pakistan	2001 - 2011
Awards	

Erasmus Mundus Leader Sch 2017

Erasmus Mundus Leader Scholarship Three-month scholarship for the Teacher Training/Research Program. As an outcome of the scholarship a joint project is being conducted in collaboration with University of Brescia (Italy) on topic of Total Cost of Ownership. Moreover, the research resulted in signing of MoU (Memorandum of Understanding) between CUST and University of Brescia.

Erasmus Mundus Fusion Sch 2016

Erasmus Mundus Fusion Scholarship One-month scholarship for the Teacher Training/Research Program. As an outcome of the scholarship a joint project is being conducted in collaboration with University of Bremen (Germany) on topic of Network Analysis of China Pakistan Economic Corridor

Leopold Escande Award 2009

Leopold Escande Award Best PhD thesis of academic year 2008-2009 at Institut National Polytechnique Toulouse (INPT).

EC Scholarship 2005

HEC Scholarship for MS leading to PhD Studies

Professional Memberships	
ASCM	Since 2013
Research Projects	
National Projects	
Academic staff mobility Funding Agency: European Union Amount: PKR 1,844,425.00 Status: Completed	2016
International Projects	
Industry Projects	
National Projects	
Decarbonization of Cement Sector in Pakistan Client: POLICY RESEARCH INSTITUTE FOR EQUITABLE DEVELOPMENT (PRIED) (Pvt.) Ltd.Paksitan Amount: PKR 3,600,000.00 Status: Completed	
Consultancy –HRDC-IMSciences Peshawar Client: HRDC-IMSciences Peshawar Amount: PKR 270,000.00 Status: Completed	2022
Shifting of POL Products to Railways Client: Pakistan Railways Amount: PKR 1,750,000.00 Status: Approved_inprocess	2021
Consultancy –HRDC-IMSciences Peshawar Client: HRDC-IMSciences Peshawar Amount: PKR 547,500.00 Status: Completed	2021
Career Orientation Test Development Client: Merafuture Amount: PKR 1,200,000.00 Status: Completed International Projects	2020
Research Articles	
Novel ergonomics indicator-based approach for evaluating a supplier organization's sustainable process performance Mujtaba Hassan Agha Shahid Ikram Ullah Butt Andrew Thatcher Irem Sarbat Asim Amjad Applied Ergonomics, Volume:129, Article Number 104583 Impact Factor: 3.400 Quartile: 2 DOI: https://doi.org/10.1016/j.apergo.2025.104583	2025
An inventory-based integrated model of a hybrid electricity supply chain for sustainable electricity storage management Waqas Ahmed Saad Salman Muhammad Imran Mujtaba Hassan Agha Muhammad Moazzam Journal of Energy Storage, Volume 83, Article Number:110746 Impact Factor: 8.900 Quartile: 1 Citations: 1 DOI: 10.1016/j.est.2024.110746	2024
Logistics performance system and their impact on economic corridors: a developing economy	2024

Muhammad Saleem Ullah Khan Sumbal Mujtaba Hassan Agha Aleena Nisar Felix Chan Industrial Management & Data Systems, Volume 124, No. 3, Pages 1005-1025

perspective

DOI: https://doi.org/10.1108/IMDS-03-2023-0151	
Integrating Ergonomics and sustainability: A framework with LDA methodology and implementation roadmap	2023
Shahid Ikramullah Butt Mujtaba Hassan Agha Ayyaz Ahmad Faping Zhang Shamraiz Ahmad Asim Amjad Technology in Society, Volume 75, Article Number 102369	
Impact Factor: 9.2 Quartile: 1 Citations: 2 DOI: https://doi.org/10.1016/j.techsoc.2023.102369	
European transition toward climate neutrality: Is renewable energy fueling energy poverty across Europe?	2023
Sulaman Muhammad Yanchun Pan Xiao Ke Mujtaba Hassan Agha Prasad Siba Borah Muhammad Akhtar Renewable Energy , Volume 208, Pages 181-190	
Impact Factor: 8.634 Quartile: 1 Citations: 18 DOI: https://doi.org/10.1016/j.renene.2023.03.090	
Investigating the role of risk mitigation strategies on supply chain disruption impact amidst covid-19 outbreak	2022
Komal Abdullah Tashfah Tauqir Mujtaba Hassan Agha Rameez Khalid NUST Business Review , Volume 03(02), Pages 1-28	
Impact Factor: N/A DOI: https://doi.org/10.37435/NBR21031701	
Industrial structure, energy intensity and environmental efficiency across developed and developing economies: The intermediary role of primary, secondary and tertiary industry Sulaman Muhammad Yanchun Pan Mujtaba Hassan Agha Muhammad Umar Siyuan Chen	2022
Energy, Volume 247, Article Number 123576 Impact Factor: 8.9 Quartile: 1 Citations: 140	
DOI: 10.1016/j.energy.2022.123576	
Redefining Critical Tasks for Responsive and Resilient Scheduling–An Intelligent Fuzzy Heuristic Approach Taiba Zahid Mujtaba Hasan Agha Salman Sagheer Warsi Usman Ghafoor	202
IEEE Access, Volume 9, Pages 145513-145521	
Impact Factor: 3.367 Quartile: 2 Citations: 2 DOI: 10.1109/ACCESS.2021.3123138	
A Multi-Criteria Decision Framework for Sustainable Supplier Selection and Order Allocation using Multi-objective Optimization and Fuzzy Approach	202
Raja Awais Liaqait Salman Sagheer Warsi Mujtaba Hassan Agha Till Becker Taiba Zahid Engineering Optimization, Pages 1-22	
Impact Factor: 2.500 Quartile: 2 Citations: 31 DOI: 10.1080/0305215X.2021.1901898	
Conceptualizing Audit Fatigue in the Context of Sustainable Supply Chains Muhammad Kamran Khalid Mujtaba Hassan Agha Syed Tasweer Hussain Shah Muhammad Naseer Akhtar Sustainability, Volume 12(21), Article Number 9135	2020
Impact Factor: 2.576 Quartile: 2 Citations: 7 DOI: https://doi.org/10.3390/su12219135	
Simultaneous Customers and Supplier's Prioritization: An AHP-Based Fuzzy Inference Decision Support System (AHP-FIDSS)	2020
Muhammad Imran Mujtaba Hassan Agha Waqas Ahmed Muhammad Babar Ramzan Biswajit Sarkar International Journal of Fuzzy Systems, Pages 1-27	
Impact Factor: 4.673 Quartile: 1 Citations: 23 DOI: https://doi.org/10.1007/s40815-020-00977-9	
Case study on the Competitiveness Comparisons of Karachi Port with the Neighbouring Emerging	2020
Ports in Persian Gulf and Indian Ocean Mujtaba Hassan Agha Raja Awais Liaqait Till Becker Salman Sagheer Warsi	
NUST Business Review, Volume 2, Issue 1, Pages 12-42	
Impact Factor: - DOI: https://nbr.nust.edu.pk/vol-2-issue-1/	

Impact Factor: $5.500 \mid$ Quartile: $2 \mid$ Citations: 5

Development of specific cutting energy map for sustainable turning: a study of Al 6061 T6 from 2020 conventional to high cutting speeds Riaz Ahmad Syed Husain Imran Jaffery Mujtaba Hassan Agha Salman Sagheer Warsi Mushtaq Khan The International Journal of Advanced Manufacturing Technology, Volume 106, Issue 7-8, Pages 2949-2960 Impact Factor: 3.226 | Quartile: 2 | Citations: 16 DOI: 10.1007/s00170-019-04836-2 2019 Evaluation of the China Pakistan Economic Corridor Road Network: Shortest Route, Regional Distribution, and Robustness Mujtaba Hassan Agha Raja Awais Liaqat Till Becker NUST Business Review, Volume 1, Issue 1, Pages 12-43 Impact Factor: -DOI: https://nbr.nust.edu.pk/wp-content/uploads/2019/11/NBR-19-0107-Final-Proof-MHAgha-Final.pdf Heat coupling of the pan-European vs. regional electrical grid with excess renewable energy 2019 Arshid, Hirra Mujtaba Hassan Agha Zulqarnain Haider Kamali Asad Ashfaq Energy, Volume 122, Pages 363-377 Impact Factor: 6.082 | Quartile: 1 | Citations: 20 DOI: 10.1016/j.energy.2017.01.084 Investigation of surrogate measures of robustness for project scheduling problems 2019 Mujtaba Hassan Agha Taiba Zahid Thorsten Schmidt Computers & Industrial Engineering, Volume 129, Pages 220-227 Impact Factor: 4.135 | Quartile: 1 | Citations: 21 DOI: 10.1016/j.cie.2019.01.041 Impact of instrumental ties, tacit knowledge sharing and affective commitment on absorptive capacity-2019 an empirical study of pharmaceutical companies Mujtaba Hassan Agha Shafqat Hameed Muhammad Rafique Technology Analysis and Strategic Management, Volume 31, Issue 2, Pages 125-139 Impact Factor: 1.867 | Quartile: 3 | Citations: 9 **DOI:** 10.1080/09537325.2018.1490017 Sustainable turning using multi-objective optimization: a study of Al6061 T6 at high cutting speeds 2019 Salman Sagheer Warsi Mujtaba Hassan Agha Riaz Ahmad Syed Husain Imran Jaffery Mushtaq Khan International Journal of Advanced Manufacturing Technology, Volume 100, Issue 1-4, Pages 843-855 Impact Factor: 2.633 | Quartile: 2 | Citations: 51 DOI: 10.1007/s00170-018-2759-2 2018 Development of energy consumption map for orthogonal machining of Al 6061-T6 alloy Salman Sagheer Warsi Syed Husain Imran Jaffery Riaz Ahmad Mushtaq Khan Mujtaba Hassan Agha Sohail Akram Liaqat Ali Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, Volume 232, Issue 14, Pages 2510-2522 Impact Factor: 1.752 | Quartile: 3 | Citations: 45 DOI: 10.1177/0954405417703424 Commonality, conflict, and absorptive capacity: Clarifying middle manager roles in the pharmaceutical 2018 industry Mujtaba Hassan Agha Muhammad Rafique Shafqat Hameed Management Decision, Volume 56, Issue 9, Pages 1904-1916 Impact Factor: 1.963 | Quartile: 3 | Citations: 13 DOI: 10.1108/MD-11-2017-1086 2018 Development and analysis of energy consumption map for high-speed machining of Al 6061-T6 alloy Salman Sagheer Warsi Syed Husain Imran Jaffery Riaz Ahmad Mushtag Khan Mujtaba Hassan Agha Liagat Ali The International Journal of Advanced Manufacturing Technology, Volume 96, Issue 1-4, Pages 91-102 Impact Factor: 2.496 | Quartile: 2 | Citations: 39 DOI: 10.1007/s00170-018-1588-7 Recent Research Trends in Genetic Algorithm based Flexible Job Shop Scheduling Problems 2018 Shahid Ikramullah Butt Rubeena Kousar Riaz Ahmad Zhang Faping Naveed Anjum Umer Asgher Muhammad Kamal Amjad Mujtaba Hassan Agha Mathematical Problems in Engineering, Article Number 9270802, 32 pages Impact Factor: 1.179 | Quartile: 3 | Citations: 120

DOI: 10.1155/2018/9270802

Impact of knowledge sharing, learning adaptability and organizational commitment on absorptive capacity in pharmaceutical firms based in Pakistan	2018
Muhammad Rafique Shafqat Hameed Mujtaba Hassan Agha Journal of Knowledge Management, Volume 22, Issue 1, Pages 44-56 Impact Factor: 4.604 Quartile: 1 Citations: 70 DOI: 10.1108/JKM-04-2017-0132	
Technology Transformation in Pharmaceutical Industries of Pakistan through joint efforts of R&D and Manufacturing Departments-A Process Centered Approach Muhammad Rafique Muhammad Tahir Nawaz Tasweer Hussain Syed Mujtaba Hassan Agha Sindh University Research Journal series, Volume 49, Issue 1, Pages 205-212 Impact Factor: -	2017
SAP-ERP Implementation: Change Management Model using Qualitative Approach Muhammad Umar Nawar Khan Mujtaba Hassan Agha Muhammad Abbas International Journal of Computer Science and Network Security, Volume 16, Issue 6, Pages 9-13 Impact Factor: - DOI: https://www.semanticscholar.org/paper/SAP-ERP-Implementation-%3A-Change-Management-Model-Umar-	2016
Khan/edd3fbc1bfc6700103402e85a8100555c2b7e843 Should Organisations Compete or Collaborate when Absorbing New External Knowledge? Muhammad Rafique Richard David Evans Muhammad Tahir Nawaz Mujtaba Hassan Agha International Journal of Advanced Corporate Learning, Volume 8, Issue 3 Impact Factor: - DOI: http://dx.doi.org/10.3991/ijac.v8i3.4741	2015
Utilizing Quality Tools: A Predictive Maintenance Perspective Aamer Hanif Mujtaba International Journal of Performability Engineering, Volume 8, Issue 6, Pages 699-704 Impact Factor: 0 DOI: https://pdfs.semanticscholar.org/7752/f68bc0082cae1a0792b6825369e80a6b4376.pdf?_ga=2.73579412.747353376.1562656673-1515754438.1561970583	2012
A Survey of Lean Implementation Gap Analysis in Public Sector Organizations Irfan Ghalib Mujtaba Hassan Agha Shafqat Hameed Muhammad Abbas Choudhar Life Science Journal, Volume 9, Pages 1261-1269 Impact Factor: 0.165 Quartile: 4 DOI: 10.7537/marslsj090412.191	2012
The Role of Data Protection Technologies: A Case Study Shafqat Hameed Mujtaba Hassan Agha Muhammad Abbas Choudhary Life Science Journal, Volume: 9, Issue: 4, Pages: 1270-1279 Impact Factor: 0.165 Quartile: 4 DOI: http://www.dx.doi.org/10.7537/marslsj090412.192	2012
The extended resource task network: a framework for the combined scheduling of batch processes and CHP plants Raphaele Thery Gilles Hetreux Mujtaba Hassan Agha Alain Hait Jean Marc Le Lann International Journal of Production Research, Volume 50, Issue 3, Pages 623-646 Impact Factor: 1.46 Quartile: 2 Citations: 11 DOI: 10.1080/00207543.2010.545444	2012
Integrated production and utility system approach for optimizing industrial unit operations Mujtaba Hassan Agha Raphaele Thery Gilles Hetreux Alain Hait Jean Marc Le Lann Energy , Volume 35, Issue 2, Pages 611-627 Impact Factor: 3.597 Quartile: 1 Citations: 74 DOI: 10.1016/j.energy.2009.10.032	2010

Conference Proceedings

Audit fatigue in sustainable supply chains - A case study of Pakistan textile industry 2021 Muhammad Kamran Khalid Mujtaba Hassan Agha Muhammad Naseer Akhtar Syed Tasweer Hussain Shah 1st International Conference on Business, Management and Social Sciences (ICBMASS)., res.country(177,) Citations: N/A DOI: Nil **Supply Chain Complexity and Audit Performance** 2020 Muhammad Kamran Khalid Mujtaba Hassan Agha Syed Tasweer Hussain Shah Muhammad Naseer Akhtar 7th International Conference on Business Management - (ICoBM), res.country(177,) Citations: N/A DOI: https://icobm.umt.edu.pk/ Integration of Triple Sustainable Management by Considering the Multi-period Supply Chain for Next-2020 **Generation Fuel** Waqas Ahmed Biswajit Sarkar Mujtaba Hassan Agha IFIP International Conference on Advances in Production Management Systems, res.country(189.) Citations: N/A **DOI:** https://doi.org/10.1007/978-3-030-57993-7_25 Flexible cell formation and scheduling of robotics coordinated dynamic cellular manufacturing system: 2019 A gateway to industry 4.0 Abdul Saboor Muhammad Imran Mujtaba Hassan Agha Waqas Ahmed International Conference on Robotics and Automation in Industry (ICRAI), res.country(177,) Citations: N/A DOI: 10.1109/ICRAI47710.2019.8967369 A formalism for integrated production and site utility system scheduling 2010 Raphaele Thery Mujtaba Hassan Agha Gilles Hétreux Alain Hait Jean Marc Le Lann 8th International Conference of Modeling and Simulation (MOSIM?10), Hammamet, Tunisia, res.country(221,) Citations: N/A DOI: https://www.semanticscholar.org/paper/A-FORMALISM-FOR-INTEGRATED-PRODUCTION-AND-SITE-Thery-Agha/17c370e24495bc6471ff3aff08818b10c2bab23c Optimization of auto-production using industrial unit 2009 Mujtaba Hassan Agha Raphaele Thery Gilles Hétreux Alain Hait Jean Marc Le Lann 8th World Congress of Chemical Engineering, WCCE8 2009, Montreal, Canada., res.country(38,) Citations: N/A DOI: https://www.ceb.cam.ac.uk/news/news-list/8th-world-congress-of-chemical-engineering-wcce8 Vers un ordonnancement intégré des ateliers batch et des centrales de cogénération associées 2009 Mujtaba Hassan Agha Raphaele Thery Gilles Hetreux Alain Hait Jean Marc Le Lann 8ème Congrès International de Génie Industriel, CIGI 2009, Tarbes, France., res.country(75,) Citations: N/A DOI: https://www.worldcat.org/title/8eme-congres-international-de-genie-industriel-cigi09-8th-international-industrial-engineering-conference-interoperabiliteet-integration-actes-resumes-bagneres-de-bigorre-france-juin-2009/oclc/835664836 Collaboration among companies for better energy management 2008 Mujtaba Hassan Agha Raphaele Thery Gilles Hetreux Alain Hait Jean Marc Le Lann 18th European Symposium on Computer Aided Process Engineering, ESCAPE 18, Lyon, France., res.country (75,) Citations: N/A DOI: https://www.elsevier.com/books/18th-european-symposium-on-computer-aided-process-engineering/braunschweig/978-0-444-53227-5 2008 Modèle intégré pour l'ordonnancement d'ateliers batch et la planification de centrales de cogénération Raphaele Thery Gilles Hetreux Mujtaba Hassan Agha 7eme Conférence Internationale de Modélisation et Simulation, MOSIM 08, Paris, France., res.country(75,) Citations: N/A DOI: http://homepages.laas.fr/sungueve/Docs/ICP/MOSIMVol_3_2008_05_21.pdf

Book Chapters

Algorithm for Integrated Production and Utility System Scheduling for Batch Plants 2009 Mujtaba Hassan Agha Raphaele Thery Gilles Hétreux Alain HaitbJean M.Le Lann In: Book on Computer Aided Chemical Engineering, Volume 27, Pages 1497-1502 Citations: 2 DOI: doi.org/10.1016/S1570-7946(09)70640-6 **Editorial Activities** South Asian Journal of Management 2021 Reviewed Papers for Journals Impact Factor: 0 South Asian Journal of Management 2021 Reviewed Papers for Journals Impact Factor: 0 South Asian Journal of Management 2021 Reviewed Papers for Journals Impact Factor: 0 South Asian Journal of Management 2021 Reviewed Papers for Journals Impact Factor: 0 South Asian Journal of Management 2021 Reviewed Papers for Journals Impact Factor: 0 South Asian Journal of Management 2021 Reviewed Papers for Journals Impact Factor: 0 2021 South Asian Journal of Management Reviewed Papers for Journals Impact Factor: 0 South Asian Journal of Management 2021 Reviewed Papers for Journals Impact Factor: 0 2021 Reviewed Papers for Journals Impact Factor: 0