Dr. J. C. Mohanta Associate Professor, MED

Patents Granted: 3

- 1. J. C. Mohanta and G. C. Mohanta, "Development of stub setting mechanism for testing of Transmission line tower", **Patent No. 431241, Date of Grant: 09.05.2023**.
- 3. J. C. Mohanta and Faiyaz Ahmed, "A Site Inspection Autonomous Unmanned Aerial Vehicle System" Patent No. 541950, Date of Grant: 14.06.2024
- 3. J. C. mohanta and Sri krishna Singh, "An automatic writing machine for drawing sketch and writing text and the method involved thereof", **Patent No. 565968**, **Date of Grant:** 05.05.2025

Book Publications:

- 1. Mohanta Jagadish Chandra (Author), Introduction to Mobile Robots Navigation, ISBN-10: 3659680648 and ISBN-13: 978-3659680649, (2015).
- 2. Jagadish Chandra Mohanta and Mohd. Nayab Zafar, A Text Book on Mobile Robot Path Planning and Navigation Control, ISBN-978-620-5-63295-6 (2023).

X. List of Publications

X(I) Journal Publications: 26 [Since Last Promotion]

Sl.	Details of Publications	Volume			Quartile	Year
No.		& Page	Scopus	factor		
1	Deep Learning-Based Fault Detection for Power	Accepted	Scopus	0.7	Q4	2025
	Transmission Insulators Using a Custom-Developed	(10.09.2025)				
	UAV Platform, Kartikey Pandey, J. C. Mohanta,					
	Vandana Agrawal, Sigma Journal of Engineering and					
	Natural Sciences					
2	Optimizing ABB MIG welding robot through polynomial		SCIE	1.9	Q2	2025
	3 31 8	1.18				
	F Ahmed, M Barman, F Shaik, JC Mohanta					
	"Proceedings of the Institution of Mechanical Engineers,					
	Part C: Journal of Mechanical Engineering Science"					
3		31 (54),	SCIE	5.8	Q1	2024
	solar PV system: sustainability assessment in Indian	62853-62876			(Green)	
	context, S Malode, R Prakash, JC Mohanta,					
	Environmental Science and Pollution Research					
4	Sustainability assessment of rooftop solar	Volume	SCIE	9.2	Q1	2024
	photovoltaic systems: A case study, Satyajit	108,			(Green)	
	Malode, Ravi Prakash, JC Mohanta,	107609,				
	Environmental Impact Assessment Review.	01-09				
5	Inspection of power transmission line insulators	Volume:	SCI	0.6	Q3	2024
	with autonomous quadcopter and SSD network,	42(3),			,	

			1		1 1	
	Faiyaz Ahmed, JC Mohanta, Sigma Journal of	621 -632				
	Engineering and Natural Sciences.					
6	Modeling and performance evaluation of mecanum	Vol.	SCI	2	Q3	2024
	wheel platform with reduced vibration and a robust	46(5),	E			
	path planning, PS Yadav, JC Mohanta, V Agrawal,	292, 1-25				
	MDF Ahmed - Journal of the Brazilian Society of					
	Mechanical Sciences,					
7	Development of a dual-axis solar tracker for		SCI	2.3	Q2	2024
	efficient sun energy harvesting, A Sanyal, JC	Vol.1, 1-				
	Mohanta, MD Faiyaz Ahmed - Proc IMechE Part	13				
	E: J Process Mechanical Engineering.					
	https://doi.org/10.1177/09544089241241453					
8	Power Transmission Line Inspections: Methods,	110 (2),	SCI	3.2	Q1	2024
	Challenges, Current Status and Usage of Unmanned	54	E	0.2	(Green)	202.
	Aerial Systems F Ahmed, JC Mohanta, A Keshari,	34	E		(Green)	
	Journal of Intelligent & Robotic Systems					
9		Vol. 1, 1-	SCI	2.7	Q3	2024
9	Autonomous Site Inspection of Power Transmission Line Insulators with Linearned Aerial Vehicle		SCI	4.1	Ų3	2024
	Line Insulators with Unmanned Aerial Vehicle	24				
	System, MDF Ahmed, JC Mohanta, Electric Power					
10	Components and Systems.	V/-1- 26	COT	F (02	2024
10	Energy-water nexus for thermal power generation in	Volume 26,	SCI	5.6	Q2	2024
	India: challenges and opportunities, R Prakash, S	8893–8913,				
	Malode, JC Mohanta, AK Dubey, Jatin, D Husain,	(2024)				
	Environment, Development and Sustainability					
11	A Life Cycle Aggregment of Coal Fired Thermal	W ₀ 1	CCI	<i>5</i> 0	01	2022
11	A Life Cycle Assessment of Coal-Fired Thermal	Vol.	SCI	5.8	Q1	2023
11	Power Plants with Post-Combustion Control	39, 90639-	SCI	5.8	Q1 (Green)	2023
11	Power Plants with Post-Combustion Control Techniques: An India Scenario, S Malode, R		SCI	5.8	_	2023
11	Power Plants with Post-Combustion Control Techniques: An India Scenario, S Malode, R Prakash, JC Mohanta , Environmental Science and	39, 90639-	SCI	5.8	_	2023
	Power Plants with Post-Combustion Control Techniques: An India Scenario, S Malode, R Prakash, JC Mohanta , Environmental Science and Pollution Research	39, 90639- 90655			(Green)	
11	Power Plants with Post-Combustion Control Techniques: An India Scenario, S Malode, R Prakash, JC Mohanta , Environmental Science and Pollution Research Path Planning of Unmanned Aerial Systems for	39, 90639- 90655		3.3	_	2023
	Power Plants with Post-Combustion Control Techniques: An India Scenario, S Malode, R Prakash, JC Mohanta, Environmental Science and Pollution Research Path Planning of Unmanned Aerial Systems for Visual Inspection of Power Transmission Lines and	39, 90639- 90655			(Green)	
	Power Plants with Post-Combustion Control Techniques: An India Scenario, S Malode, R Prakash, JC Mohanta, Environmental Science and Pollution Research Path Planning of Unmanned Aerial Systems for Visual Inspection of Power Transmission Lines and Towers MDF Ahmed, JC Mohanta, A Sanyal, PS	39, 90639- 90655			(Green)	
12	Power Plants with Post-Combustion Control Techniques: An India Scenario, S Malode, R Prakash, JC Mohanta, Environmental Science and Pollution Research Path Planning of Unmanned Aerial Systems for Visual Inspection of Power Transmission Lines and Towers MDF Ahmed, JC Mohanta, A Sanyal, PS Yadav, IETE Journal of Research, 1-21	39, 90639- 90655 Vol. 1, 1-21	SCIE	3.3	(Green)	2023
	Power Plants with Post-Combustion Control Techniques: An India Scenario, S Malode, R Prakash, JC Mohanta, Environmental Science and Pollution Research Path Planning of Unmanned Aerial Systems for Visual Inspection of Power Transmission Lines and Towers MDF Ahmed, JC Mohanta, A Sanyal, PS Yadav, IETE Journal of Research, 1-21 Inspection and identification of transmission line	39, 90639- 90655 Vol. 1, 1-21	SCIE SCIE		(Green)	
12	Power Plants with Post-Combustion Control Techniques: An India Scenario, S Malode, R Prakash, JC Mohanta, Environmental Science and Pollution Research Path Planning of Unmanned Aerial Systems for Visual Inspection of Power Transmission Lines and Towers MDF Ahmed, JC Mohanta, A Sanyal, PS Yadav, IETE Journal of Research, 1-21 Inspection and identification of transmission line insulator breakdown based on deep learning using	39, 90639- 90655 Vol. 1, 1-21 Volume 211, 108199	SCIE SCIE	3.3	(Green)	2023
12	Power Plants with Post-Combustion Control Techniques: An India Scenario, S Malode, R Prakash, JC Mohanta, Environmental Science and Pollution Research Path Planning of Unmanned Aerial Systems for Visual Inspection of Power Transmission Lines and Towers MDF Ahmed, JC Mohanta, A Sanyal, PS Yadav, IETE Journal of Research, 1-21 Inspection and identification of transmission line insulator breakdown based on deep learning using aerial images, MDF Ahmed, JC Mohanta, A	39, 90639- 90655 Vol. 1, 1-21	SCIE SCIE	3.3	(Green)	2023
12	Power Plants with Post-Combustion Control Techniques: An India Scenario, S Malode, R Prakash, JC Mohanta, Environmental Science and Pollution Research Path Planning of Unmanned Aerial Systems for Visual Inspection of Power Transmission Lines and Towers MDF Ahmed, JC Mohanta, A Sanyal, PS Yadav, IETE Journal of Research, 1-21 Inspection and identification of transmission line insulator breakdown based on deep learning using aerial images, MDF Ahmed, JC Mohanta, A Sanyal, Electric Power Systems Research.	39, 90639- 90655 Vol. 1, 1-21 Volume 211, 108199 , 1-15	SCIE	3.3	Q2	2023
12	Power Plants with Post-Combustion Control Techniques: An India Scenario, S Malode, R Prakash, JC Mohanta, Environmental Science and Pollution Research Path Planning of Unmanned Aerial Systems for Visual Inspection of Power Transmission Lines and Towers MDF Ahmed, JC Mohanta, A Sanyal, PS Yadav, IETE Journal of Research, 1-21 Inspection and identification of transmission line insulator breakdown based on deep learning using aerial images, MDF Ahmed, JC Mohanta, A Sanyal, Electric Power Systems Research. Recent Advances in Unmanned Aerial Vehicles: A	39, 90639- 90655 Vol. 1, 1-21 Volume 211, 108199 , 1-15 Vol. 47(7)	SCIE SCIE	3.3	(Green)	2023
12	Power Plants with Post-Combustion Control Techniques: An India Scenario, S Malode, R Prakash, JC Mohanta, Environmental Science and Pollution Research Path Planning of Unmanned Aerial Systems for Visual Inspection of Power Transmission Lines and Towers MDF Ahmed, JC Mohanta, A Sanyal, PS Yadav, IETE Journal of Research, 1-21 Inspection and identification of transmission line insulator breakdown based on deep learning using aerial images, MDF Ahmed, JC Mohanta, A Sanyal, Electric Power Systems Research. Recent Advances in Unmanned Aerial Vehicles: A Review, F Ahmed, JC Mohanta, A Keshari, PS	39, 90639- 90655 Vol. 1, 1-21 Volume 211, 108199 , 1-15	SCIE	3.3	Q2	2023
12	Power Plants with Post-Combustion Control Techniques: An India Scenario, S Malode, R Prakash, JC Mohanta, Environmental Science and Pollution Research Path Planning of Unmanned Aerial Systems for Visual Inspection of Power Transmission Lines and Towers MDF Ahmed, JC Mohanta, A Sanyal, PS Yadav, IETE Journal of Research, 1-21 Inspection and identification of transmission line insulator breakdown based on deep learning using aerial images, MDF Ahmed, JC Mohanta, A Sanyal, Electric Power Systems Research. Recent Advances in Unmanned Aerial Vehicles: A	39, 90639- 90655 Vol. 1, 1-21 Volume 211, 108199 , 1-15 Vol. 47(7)	SCIE	3.3	Q2	2023
12	Power Plants with Post-Combustion Control Techniques: An India Scenario, S Malode, R Prakash, JC Mohanta, Environmental Science and Pollution Research Path Planning of Unmanned Aerial Systems for Visual Inspection of Power Transmission Lines and Towers MDF Ahmed, JC Mohanta, A Sanyal, PS Yadav, IETE Journal of Research, 1-21 Inspection and identification of transmission line insulator breakdown based on deep learning using aerial images, MDF Ahmed, JC Mohanta, A Sanyal, Electric Power Systems Research. Recent Advances in Unmanned Aerial Vehicles: A Review, F Ahmed, JC Mohanta, A Keshari, PS	39, 90639- 90655 Vol. 1, 1-21 Volume 211, 108199 , 1-15 Vol. 47(7) 7963-7984	SCIE	3.3	Q2	2023
12	Power Plants with Post-Combustion Control Techniques: An India Scenario, S Malode, R Prakash, JC Mohanta, Environmental Science and Pollution Research Path Planning of Unmanned Aerial Systems for Visual Inspection of Power Transmission Lines and Towers MDF Ahmed, JC Mohanta, A Sanyal, PS Yadav, IETE Journal of Research, 1-21 Inspection and identification of transmission line insulator breakdown based on deep learning using aerial images, MDF Ahmed, JC Mohanta, A Sanyal, Electric Power Systems Research. Recent Advances in Unmanned Aerial Vehicles: A Review, F Ahmed, JC Mohanta, A Keshari, PS Yadav, Arabian Journal for Science and Engineering	39, 90639- 90655 Vol. 1, 1-21 Volume 211, 108199 , 1-15 Vol. 47(7)	SCIE	3.3	Q2	2023
13	Power Plants with Post-Combustion Control Techniques: An India Scenario, S Malode, R Prakash, JC Mohanta, Environmental Science and Pollution Research Path Planning of Unmanned Aerial Systems for Visual Inspection of Power Transmission Lines and Towers MDF Ahmed, JC Mohanta, A Sanyal, PS Yadav, IETE Journal of Research, 1-21 Inspection and identification of transmission line insulator breakdown based on deep learning using aerial images, MDF Ahmed, JC Mohanta, A Sanyal, Electric Power Systems Research. Recent Advances in Unmanned Aerial Vehicles: A Review, F Ahmed, JC Mohanta, A Keshari, PS Yadav, Arabian Journal for Science and Engineering 47 (7), 7963-7984	39, 90639- 90655 Vol. 1, 1-21 Volume 211, 108199 , 1-15 Vol. 47(7) 7963-7984	SCIE SCIE	3.3	Q2 Q2	2023
13	Power Plants with Post-Combustion Control Techniques: An India Scenario, S Malode, R Prakash, JC Mohanta, Environmental Science and Pollution Research Path Planning of Unmanned Aerial Systems for Visual Inspection of Power Transmission Lines and Towers MDF Ahmed, JC Mohanta, A Sanyal, PS Yadav, IETE Journal of Research, 1-21 Inspection and identification of transmission line insulator breakdown based on deep learning using aerial images, MDF Ahmed, JC Mohanta, A Sanyal, Electric Power Systems Research. Recent Advances in Unmanned Aerial Vehicles: A Review, F Ahmed, JC Mohanta, A Keshari, PS Yadav, Arabian Journal for Science and Engineering 47 (7), 7963-7984 A Theoretical Review of Mobile Robot Locomotion based on Mecanum Wheels, PS Yadav, JC	39, 90639- 90655 Vol. 1, 1-21 Volume 211, 108199 , 1-15 Vol. 47(7) 7963-7984 Vol. 09	SCIE SCIE SCOPU	3.3	Q2 Q2	2023
13	Power Plants with Post-Combustion Control Techniques: An India Scenario, S Malode, R Prakash, JC Mohanta, Environmental Science and Pollution Research Path Planning of Unmanned Aerial Systems for Visual Inspection of Power Transmission Lines and Towers MDF Ahmed, JC Mohanta, A Sanyal, PS Yadav, IETE Journal of Research, 1-21 Inspection and identification of transmission line insulator breakdown based on deep learning using aerial images, MDF Ahmed, JC Mohanta, A Sanyal, Electric Power Systems Research. Recent Advances in Unmanned Aerial Vehicles: A Review, F Ahmed, JC Mohanta, A Keshari, PS Yadav, Arabian Journal for Science and Engineering 47 (7), 7963-7984 A Theoretical Review of Mobile Robot Locomotion	39, 90639- 90655 Vol. 1, 1-21 Volume 211, 108199 , 1-15 Vol. 47(7) 7963-7984 Vol. 09 (02), pp396-	SCIE SCIE SCOPU	3.3	Q2 Q2	2023
12 13 14	Power Plants with Post-Combustion Control Techniques: An India Scenario, S Malode, R Prakash, JC Mohanta, Environmental Science and Pollution Research Path Planning of Unmanned Aerial Systems for Visual Inspection of Power Transmission Lines and Towers MDF Ahmed, JC Mohanta, A Sanyal, PS Yadav, IETE Journal of Research, 1-21 Inspection and identification of transmission line insulator breakdown based on deep learning using aerial images, MDF Ahmed, JC Mohanta, A Sanyal, Electric Power Systems Research. Recent Advances in Unmanned Aerial Vehicles: A Review, F Ahmed, JC Mohanta, A Keshari, PS Yadav, Arabian Journal for Science and Engineering 47 (7), 7963-7984 A Theoretical Review of Mobile Robot Locomotion based on Mecanum Wheels, PS Yadav, JC Mohanta, V Agrawal, MDF Ahmed, EVERGREEN Joint Journal of Novel Carbon Resource Sciences	39, 90639- 90655 Vol. 1, 1-21 Volume 211, 108199 , 1-15 Vol. 47(7) 7963-7984 Vol. 09 (02), pp396- 403	SCIE SCIE Scopu	3.3 3.3 2.6	Q2 Q2 Q3	2023
13	Power Plants with Post-Combustion Control Techniques: An India Scenario, S Malode, R Prakash, JC Mohanta, Environmental Science and Pollution Research Path Planning of Unmanned Aerial Systems for Visual Inspection of Power Transmission Lines and Towers MDF Ahmed, JC Mohanta, A Sanyal, PS Yadav, IETE Journal of Research, 1-21 Inspection and identification of transmission line insulator breakdown based on deep learning using aerial images, MDF Ahmed, JC Mohanta, A Sanyal, Electric Power Systems Research. Recent Advances in Unmanned Aerial Vehicles: A Review, F Ahmed, JC Mohanta, A Keshari, PS Yadav, Arabian Journal for Science and Engineering 47 (7), 7963-7984 A Theoretical Review of Mobile Robot Locomotion based on Mecanum Wheels, PS Yadav, JC Mohanta, V Agrawal, MDF Ahmed, EVERGREEN Joint Journal of Novel Carbon Resource Sciences A review on life cycle assessment approach on	39, 90639- 90655 Vol. 1, 1-21 Volume 211, 108199 , 1-15 Vol. 47(7) 7963-7984 Vol. 09 (02), pp396- 403 Vol. 56,	SCIE SCIE SCOPU	3.3 3.3 2.6	Q2 Q2	2022
12 13 14	Power Plants with Post-Combustion Control Techniques: An India Scenario, S Malode, R Prakash, JC Mohanta, Environmental Science and Pollution Research Path Planning of Unmanned Aerial Systems for Visual Inspection of Power Transmission Lines and Towers MDF Ahmed, JC Mohanta, A Sanyal, PS Yadav, IETE Journal of Research, 1-21 Inspection and identification of transmission line insulator breakdown based on deep learning using aerial images, MDF Ahmed, JC Mohanta, A Sanyal, Electric Power Systems Research. Recent Advances in Unmanned Aerial Vehicles: A Review, F Ahmed, JC Mohanta, A Keshari, PS Yadav, Arabian Journal for Science and Engineering 47 (7), 7963-7984 A Theoretical Review of Mobile Robot Locomotion based on Mecanum Wheels, PS Yadav, JC Mohanta, V Agrawal, MDF Ahmed, EVERGREEN Joint Journal of Novel Carbon Resource Sciences A review on life cycle assessment approach on thermal power generation, S Malode, JC Mohanta,	39, 90639- 90655 Vol. 1, 1-21 Volume 211, 108199 , 1-15 Vol. 47(7) 7963-7984 Vol. 09 (02), pp396- 403	SCIE SCIE Scopu Scopu	3.3 3.3 2.6	Q2 Q2 Q3	2022 2022
12 13 14	Power Plants with Post-Combustion Control Techniques: An India Scenario, S Malode, R Prakash, JC Mohanta, Environmental Science and Pollution Research Path Planning of Unmanned Aerial Systems for Visual Inspection of Power Transmission Lines and Towers MDF Ahmed, JC Mohanta, A Sanyal, PS Yadav, IETE Journal of Research, 1-21 Inspection and identification of transmission line insulator breakdown based on deep learning using aerial images, MDF Ahmed, JC Mohanta, A Sanyal, Electric Power Systems Research. Recent Advances in Unmanned Aerial Vehicles: A Review, F Ahmed, JC Mohanta, A Keshari, PS Yadav, Arabian Journal for Science and Engineering 47 (7), 7963-7984 A Theoretical Review of Mobile Robot Locomotion based on Mecanum Wheels, PS Yadav, JC Mohanta, V Agrawal, MDF Ahmed, EVERGREEN Joint Journal of Novel Carbon Resource Sciences A review on life cycle assessment approach on	39, 90639- 90655 Vol. 1, 1-21 Volume 211, 108199 , 1-15 Vol. 47(7) 7963-7984 Vol. 09 (02), pp396- 403 Vol. 56,	SCIE SCIE Scopu Scopu	3.3 3.3 2.6	Q2 Q2 Q3	2022 2022

	chair for trajectory tracking PS Yadav, V Agrawal,	623-630	S			
	JC Mohanta, MDF Ahmed Materials Today: Proceedings					
18	Development of smart quadcopter for autonomous	Vol. 51,	Scopu	3.2	NA	2022
10	overhead power transmission line inspections MDF	261-268	S	0.2	1,112	
	Ahmed, JC Mohanta, MN Zafar, Materials Today:					
	Proceedings.					
19	GWO-potential field method for mobile robot path		SCIE	2.6	Q2	2021
	planning and navigation control MN Zafar, JC	8087-8104.				
	Mohanta, A Keshari Arabian Journal for Science					
20	and Engineering 46 (8), 8087-8104 Navigational Control of Several Mobile Robotic	Vol. 11	SCI	9.7	01	2021
20	Agents using Petri Potential Fuzzy Hybrid		SCI	9.1	Q1 (Green)	2021
	Controller, JC Mohanta, DR Parhi, Applied Soft	3340-3337			(Green)	
	Computing 11, 3546-3557					
	r. S. J. F.					
21	Design and implementation of an autonomous robot	Vol. 691,	Scopu	0.5	NA	2019
	manipulator for pick & place planning, MN Zafar,	No. 1, p.	S			
	JC Mohanta, A Sanyal, IOP Conference Series:	012008				
	Materials Science and Engineering 691 (1), 012008,					
22	01-08,	Val. 601	C	0.5	TAT A	2019
22	Development and Fabrication of an Autonomous Seed Sowing Robot, S Dutta, U Shanker, S Katiyar,	Vol. 691, No. 1, p.	Scopu s	0.5	NA	2019
	V Singh, MN Zafar, JC Mohanta, IOP Conference	012023	5			
	Series: Materials Science and Engineering 691 (1), .	012023				
	012023, 1-8					
23	Modeling and analysis of articulated robotic arm for	Vol. 691,	Scopu	0.5	NA	2019
	material handling applications, R Jain, MN Zafar,	No. 1, p.	S			
	JC Mohanta, IOP Conference Series: Materials	012010				
	Science and Engineering 691 (1), 012010, 1-8					
24	A knowledge based fuzzy-probabilistic roadmap	Vol. 79,	SCIE	9.7	Q1	2019
	method for mobile robot navigation, JC Mohanta, A Keshari, Applied Soft Computing 79, 391-409	391-409.			(Green)	
25	A control scheme for navigation and obstacle	Vol. 43,	SCIE	3.67	Q1	2018
23	avoidance of autonomous flying agent, JC	1395-1407	SCIE	3.07	l VI	2010
	Mohanta, DR Parhi, SR Mohanty, A Keshari,	1575 1107				
	Arabian Journal for Science and Engineering 43,					
	1395-1407					
26	Methodology for path planning and optimization of	Vol. 133,	Scopu	0.51	NA	2018
	mobile robots: A review, MN Zafar, JC Mohanta,	141-152	S			
	Procedia computer science 133, 141-152					

X(II) Book Chapter Publications: 5 [Since Last Promotion]

Sl.	Details of Publications	Page	SCI/	Impact	Year
No.			Scopus	factor	
1	Inspection of Overhead Power Transmission Conductors	145-155	Scopus	0.6	2023
	with Autonomous Quadcopter, MD Faiyaz Ahmed, JC		(Book		

	Mohanta, Soft Computing Applications in Modern Power		chapter)		
	and Energy Systems.				
2	A Comparative Water Life Cycle Assessment of Pulverized	309-319	Scopus	0.7	2023
	Coal-Fired Power Plants with Various Post-combustion		(Book		
	Controls, S Malode, JC Mohanta, R Prakash, Emerging		chapter)		
	Trends in Mechanical and Industrial Engineering: Select				
	Proceedings.				
3	Recent Developments and Challenges in Solar Harvesting	251-275	Scopus	0.7	2023
	of Photovoltaic System: A Review, A Sanyal, MDF		(Book		
	Ahmed, JC Mohanta, Emerging Trends in Mechanical and		chapter)		
	Industrial Engineering: Select Proceedings.		- ,		
4	Path planning approaches for mobile robot navigation in	555-572	Scopus	0.7	2021
	various environments: a review A Sanyal, M Nayab Zafar,		(Book		
	JC Mohanta, M Faiyaz Ahmed Advances in		chapter)		
	Interdisciplinary Engineering: Select Proceedings of				
	FLAME 2020.				
5	Effect of Temperature on Path and Trajectory Tracking of	31-41	Scopus	0.7	2021
	Mobile Robots in a Cluttered Environment, M Nayab		(Book		
	Zafar, JC Mohanta, M Faiyaz Ahmed, Advances in		chapter)		
	Interdisciplinary Engineering: Select Proceedings of				
	FLAME 2020.				

X(III) Conference Publications: 6 [Since Last Promotion]

Sl.	Details of Publications	Page	Index	Year
No.				
1	A Comparative Water Life Cycle Assessment of Pulverized Coal-	309-319	Scopus	2023
	Fired Power Plants with Various Post-combustion Controls, S			
	Malode, JC Mohanta, R Prakash, Emerging Trends in			
	Mechanical and Industrial Engineering: Select Proceedings			
2	Recent developments and challenges in solar harvesting of	251- 275	Scopus	2023
	photovoltaic system: A review, Alok Sanyal, MD. Faiyaz Ahmed,		-	
	J. C. Mohanta. Emerging Trends in Mechanical and Industrial			
	Engineering (LNME).			
3	Inspection of Overhead Power Transmission Conductors with	145-155	Scopus	2023
	Autonomous Quadcopter, MD Faiyaz Ahmed, JC Mohanta, In:		_	
	International Conference on 3rd Electric Power and Renewable			
	Energy Conference (EPREC-2022) at NIT Jamshedpur, India.			
	2022			
4	Modeling and analysis of quadcopter F450 frame, MDF Ahmed,	196-201	Scopus	2020
	MN Zafar, JC Mohanta, 2020 international conference on		•	
	contemporary computing and applications.			
5	Effect of Temperature on Path and Trajectory Tracking of Mobile	31-41	Scopus	2021
	Robots in a Cluttered Environment, M Nayab Zafar, JC		•	
	Mohanta, M Faiyaz Ahmed, Advances in Interdisciplinary			
	Engineering: Select Proceedings of FLAME 2020			

6	Path planning approaches for mobile robot navigation in various	555-572	Scopus	2021
	environments: a review A Sanyal, M Nayab Zafar, JC Mohanta,			
	M Faiyaz Ahmed Advances in Interdisciplinary Engineering:			
	Select Proceedings of FLAME 2020			

X(IV) List of Publications: 20 [Before Last Promotion]

Sl.	Details of Publications	Index	Impact	Year
No.		C	factor	2015
L	R. Jain, Mohd.Nayab Zafar, J. C. Mohanta: Modeling and Analysis	Scopus	0.5	2017
	of Articulated Robotic Arm for Material Handling Applications. In:			
	ICCEMME 2019, held 3-5 May 2019. DOI: 10.1088/1757-			
	899X/691/1/012010. [IOP Conference Series Materials Science and			
	Engineering].	COL	2.52	2016
2	Microgrid protection using Hilbert-Huang transform based-	SCI	2.52	2016
	differential scheme, A Gururani, SR Mohanty, JC Mohanta, IET			
2	Generation, Transmission & Distribution 10 (15), 3707-3716	C		2016
3	Design of a new improved intake manifold for F-Sae car, A Raj, JC	Scopus		2016
	Mohanta, B Paul, MN Zafar, Int J Adv Prod Mech Eng (IJAPME)			
	(4), 48-52			2016
4	An improved path planning approach for mobile robot navigation			2016
	based on particle swarm optimization, PK Yadav, JC Mohanta, SR			
5	Mohanty, Mation analysis of articulated relation arms for industrial analysis and articulated relation.			2012
3	Motion analysis of articulated robotic arm for industrial application,			2012
6	PK Dhote, JC Mohanta , M Nayab Zafar	Coorne		2011
0	Genetic Algorithm based Trajectory Planning and Control of Multiple	Scopus	-	2011
	Mobile Robot Navigation, DR Parhi, JC Mohanta, SK Patel, International Journal of Applied Artificial Intelligence in			
	Engineering			
7	Kinematic Analysis of Wheeled Mobile Robots Path Planning Based	Scopus		2011
	On FuzzyLogic Approach, JC Mohanta, DR Parhi, SK Patel, IPS	_		
	Paul, A Jha, International Journal of Applied Artificial Intelligence in			
	Engineering.			
8	Premature failure and Remedial measure for prototype tsting of UHV	Scopus	0.27	2011
	transmission line towers:an overview, JC Mohanta, D Revanna, The	_		
	Journal of CPRI 7 (1), 115-122			
9	Path planning strategy for autonomous mobile robot navigation using	SCIE	5.32	2011
	PetriGA optimisation, JC Mohanta, DR Parhi, SK Patel, Computers			
	& Electrical Engineering 37 (6), 1058-1070			
10	Navigational Control of Several Mobile Robotic Agents using	SCIE	10.16	2011
	PetriPotentialFuzzy Hybrid Controller, JC Mohanta, DR Parhi,			
	Applied Soft Computing 11, 3546-3557			
11	Analysis of Hybrid Genetic Technique for Navigation of Intelligent	Scopus		2010
	Autonomous Mobile Robots, JC Mohanta, DR Parhi, SK Patel,	_		
	BBVL Deepak, International Journal of Artificial Intelligence in			
	Engineering systems 2 (2).			
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