

Curriculum Vitae

TANMOY MAITY

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**Address : Department of Electrical Engineering
Indian Institute of Technology (Indian School of Mines),
Dhanbad 826004.**

Academic Experience :

Aug 2023 onwards	Professor Department of Electrical Engineering	Indian Institute of Technology (Indian School of Mines), Dhanbad
May 2013 Aug 2023	Associate Professor Department of Electrical Engineering/ Mining Machinery Engg	Indian Institute of Technology (Indian School of Mines), Dhanbad
June 2009 May 2013	Assistant Professor Department of Electrical Engineering	Indian School of Mines, Dhanbad
April, 2008 June 2009	Assistant Professor & HOD Department of Electrical Engineering	Heritage Institute of Technology, Kolkata (PG Degree Engineering College approved by AICTE, accredited by NBA-Govt. of India, affiliated to West Bengal University of Technology)
Dec, 2003 – April, 2008	Assistant Professor Department of Electrical Engineering	College of Engineering & Management, Kolaghat, West Bengal. (Degree Engineering College approved by AICTE, accredited by NBA-Govt. of India, affiliated to West Bengal University of Technology)
Sept, 1998 – Nov, 2003	Lecturer Department of Electrical Engineering	
<u>Research</u> Area : Instrumentation/ Power Electronics Engineering/ Mining Electrical Technology		

Industry Experience

Total : 6 years

1995 – 1998	Exide Industries Limited– Senior Officer, Electrical
1990 – 1992 (4 ½ years)	Job description : Maintenance of production machinery, electrical sub-stations, utility machinery , process control instruments, controllers, PLC, battery chargers as per ISO standard. Commissioning, installation, development of equipment.
1994 – 1995 (1½ year)	Prime Power Control Technology (I) Limited – Power Electronics Engineer Job description : Design & development of different power electronic equipment / products.

Education:

	Examination	Institute / University	Performance
2008	PhD Electrical Engineering	Bengal Engineering & Science University, Shibpur	---
1992 - 1994	M.E. in Power Electronics	B. E. College Calcutta University	1 st Class (75.2%)
1986-1990	B.E. in Electrical Engineering	B. E. College Calcutta University	1 st Class (68.8%)
1986	Higher Secondary	W.B.C.H.S.E	1 st Class (77.0%)
1984	Madhyamik	W.B.B.S.E	1 st Class (76.9%) with National Scholarship

Professional membership :

1. Member IEEE, membership number is 92061341
2. Life- member : Indian Society of Technical Education.(Membership no. LM42391)
3. Member : Institution of Engineers (India) (M-141834-8)
4. Member: Scientific advisory committee: Central Council of Research in Homeopathy, India.

5. Editorial Board Member: International Journal: Energy and power - scientific & Academic Publishing, USA.
6. Editorial Board Member: Journal of Mines, Metals & Fuels, India.

Awards :

- i) National Scholarship awarded in the levels of 10 and 10+2
- ii) 'Certificate of Merit' award from Institution of Engineers(I) for a paper published in Journal in 2007.
- iii) 'Sir Thomas Ward Memorial Prize' from Institution of Engineers(I) for a paper published in Journal in 2009.
- iv) ISO50001:2011 Energy management Internal Auditor by BSI.

Book authored:

1. Unveiling the Mystery of Homoeopathic Medicines – concept & experimental justification. (Lap Lambert Academic Publishing : ISBN-10: 3838382609)
2. Chapter : Advance Intelligent Video Surveillance System (AIVSS):A Future Aspect
Mritunjay Rai, Agha Asim Husain, Tanmoy Maity and Ravindra K Yadav
Book: Intelligent Video Surveillance, IntechOpen, 2018 doi : 10: 5772/intechopen.76444
3. Chapter : Challenges of a wireless body area network: Architecture and applications
By Indra K Shah, Yogendra S Dohare, Tanmoy Maity
Book: Smart Computing 1ST Edn, (ISBN 9781003167488), CRC Press 2021, pp 743-749
4. Chapter–8, Facial Feature-based Human Emotion Detection using Machine Learning: An Overview
Book : Artificial Intelligence and Cybersecurity: Advances and Innovations, CRC Press
ISBN 9781003097518 2022
5. Chapter–Rahaman, S., Abdul Alim Sheikh, M., Kole, A., Maity, T., Pradhan, C.K. (2019). Automatic Geospatial Objects Classification from Satellite Images. In: Abraham, A., Dutta, P., Mandal, J., Bhattacharya, A., Dutta, S. (eds) Emerging Technologies in Data Mining and Information Security. Advances in Intelligent Systems and Computing, vol 813. Springer, Singapore.
https://doi.org/10.1007/978-981-13-1498-8_10

Reviewer of Books :

1. Fundamentals of Electric Circuits, 3/e by Alexander – McGraw Hill Education
2. Power Electronics by Hart - – McGraw Hill Education
3. Power Electronics – Cambridge University Press

Reviewer of Research Papers : IEEE, IET. Wiley, Elsevier, ACTA Press, WSEAS etc.

Laboratory Developed

Power Electronics Laboratory, Dept of EE, MME

Electronics & instrumentation Laboratory, Dept of MME

Mine Electrical Technology Laboratory, Dept of MME

Automation and Control Laboratory

Subjects taught

Mine Electrical Technology, Automation and Control, A. C. Controller, Mine Electrical Drives, Power System Protection, Mine Instrumentation, Electronics and Instrumentation, Analog Electronics, Digital signal processing, Digital Electronics, Utilization of Electrical Power, Electrical Technology, Circuit Theory, Basic Electrical Engineering, Circuit Theory, Electrical Machines, Power Electronics / Drives, Non-conventional Energy

Major Research Experimental Set-up developed

- Grid Tied Wind Energy Emulator system
- LoRa based wireless data monitoring through WSN
- Hardware-in-loop real-time Power Electronics simulator
- Grid-connected Solar-PV multi-level converter
- Facility for PLC based advanced training system
- In-house PCB manufacturing facility

PhD Guided:

No	Name of Candidate	Awarded on	Title of the thesis	Sole or Joint
1	Santosh Sonar (JRF)	13.04.2013	Z-Source Inverter used for Wind Power Conversion	Sole
2	Yogendra Dohare (JRF)	08.02.2016	Development of a wireless low cost surveillance and safety system for underground mine workers	Principal Guide
3	Hanuman Prasad (JRF)	08.02.2017	Z-Source Converter for Mine Electric Drives	Sole
4	D. Vijaya Bhaskar (Asst Prof, EE) As Co-Guide	September 2017	Multi-output series resonant inverter configurations and control techniques for induction cooking applications	Jointly with NIT, Warangal
5	Vanguri Ranjith Babu (JRF)	22.01.2018	Development of Electrical Energy-Saving Technique for ventilation fans used in underground Mines	Sole
6	Partha sarathi Das (Part Time)	28.02.2018	Feasibility study of wireless system for protection and tracking in underground mines	Sole
7	Joby Antony (Part Time)	15.11.2019	Design and development of intelligent data acquisition system for a cryogenic application using Indigenously developed instruments	Sole
8	Ankur K Gupta (Part Time)	7.6.2021	Performance Analysis of MPPT Assisted Solar PV System under Different Operating conditions	Sole /Ext joint
9	Indranil Sarkar (Part Time)	18.11.2021	Design and Performance Evaluation of an Adaptive Array Antenna System for Mobile Communication	Sole /Ext joint
10	Sushma Kakkar (Part Time)	16.3.2022	Control of Power Electronic Converter for Integration of Renewable Energy Source	Sole /Ext joint
11	Rohit Kumar Verma (Part Time)	25.8.2022	Techniques to Measure Conducted EMI and Simplify the Analysis in Transmission Line EMI Filter	Sole /Ext joint
12	Rabindra Nath Raul (Part Time)	17.10.2022	Application of the Power Line Communication Technique for underground Coal-Mine Illumination and Voice Communication	Sole /Ext joint
13	Md. Abdul Alim Sheikh (Part Time)	25.11.2022	Man-made Object Extraction and Change Detection from Remote Sensing Imagery	Sole /Ext joint
14	Mrutunjaya Panda As Co-Guide Full time		Coordinated power management strategies for multiple subgrids in photovoltaic-battery based dc microgrid	Co-guide
15	Indra Kumar Shah (Part Time)	30.01.2023	Development of Energy Efficient Wireless Sensor Network	Sole /Ext joint
16	Mrityunjay Rai (Part Time)	17.4.2023	Development and Comparison of Algorithms for real-time applications using Thermal Images	Sole /Ext joint

17	Mayank Sharma (JRF)	01.8.2023	Development of smart wireless environment monitoring system for underground coal mines using fault-tolerant sensor fusion	Sole
18	Ranjeet Mandal (Part Time)	29.8.2023	Laboratory investigation of underground coal gasification technique: development of process monitoring system	Sole /Ext joint
19	Arindam Chakraborty	23.2.2024	Enhancement of Low Voltage Ride-Through Capability for Grid-Connected Doubly Fed Induction Generator-Based Wind Energy Conversion System	Sole
20	Probeer Sahw	4.11.2024	Investigation and mitigation of speed control and charging issues in Electric Vehicles	Sole /Ext joint
21	Manoj Kumar	1.1.2025	Evaluation of Energy Utilization and Conservation Strategies in an Indian Underground Coal Mine	Sole /Ext joint

Sponsored Research Projects:

	<i>Title</i>	<i>ISM Ref. no.</i>	<i>PI/ Co-PI</i>	<i>Cost (in rupees)</i>	<i>Durati on years</i>	<i>Agency</i>	<i>Status</i>
1	Design and Deployment of Ventilation Fan Wind Power Recovery System as alternate source of Electrical Energy in Underground Coal-Mines	CIL(13)/2020-2021/775/MME 8.2.2021	PI	6670000	3	Coal India	Completed 9.2.2024
2	Development of an Intelligent Helmet for safety and communication of underground Miners	DST(SERB)/(14 4)/2016- 2017/480/MM E 21.09.2016	PI	33,03,048	3	DST(SE RB)	Completed 21.3.2020
3	Establishment of Centre of Excellence for Training and Research in frontier Areas of Science and Technology in Renewable Energy	MHRD(CoE)/RE /2014- 2015/402/INST 04.09.2014	Co-PI	400 lakh	3	MHRD	Completed 31.3.2021
4	Development of Advanced Compact Sized Emi Filter	With external Institute	Co-PI	12.85 lakh		NPIU (MHRD)	
5	Development of Static VAR compensator (STATCOM) for self-excited variable speed Induction Generator	UGC(49)/2009- 2010/254/EE 01.02.2010	PI	9.16 lakh	2.5	UGC	Completed 31.07.2012
6	Design and Development of a Waveguide Based Wide FSR ultra-fast multiple Optical Ring Resonator	UGC(49)/2009- 2010/258/EE 01.02.2010	Co-PI	8.8 lakh	3	UGC	Completed 31.01.2013
7	Development of Prototype of an Intelligent Wireless Energy Metering and Online Billing System	FRS(21)/2010- 2011/EE 31.3.2011	PI	8.1 lakh	3	ISM	Completed 31.3.2015

Industrial Consultancy

1.	Development and vetting of 5 cubic ton excavator 23.5.2017 -	Heavy Engineering Corporation, Ranchi	64.8 Lakh	Co-Cl	Ongoing
2	Safety audit of the seven working mines of OMC Ltd	Odisha Mines Corporation, Ltd	18.17 Lakhs	Co-Cl	Ongoing

	1.10.2018 – 31.3.2021				
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Professional Development Course/ Workshop Organised as Coordinator:

1. 3-days short term course on “Wireless Communication and Environment Monitoring in Underground Mines – Possibilities and Implementation” during 21-23 February, 2013.- (2.66 lakh) 14 participants
2. 6 days training course on “Programmable Logic Controller (PLC) – Programming, Applications & Troubleshooting ’ held on 4-9 October, 2013.- (2.64 lakh) 32 participants
3. 5 days training course on “Mining Equipment and Electricals” on 20-24 Jan, 2014.- (4.75 lakh) 16 participants
4. Organised two days workshop jointly with Texas Instruments and cranes software India on embedded microcontroller system sponsored by TEQIP-II (14-15 Feb, 2014). **31 participants**
5. 5 days training course on “Mining Equipment and Electricals” on 23-27 Feb, 2015.- (2.40 lakh) 9 participants
6. 3 days training course on “Mine Electrical Safety” on 13-15 July, 2015 – (3.74 lakh) 19 participants
7. 5 days training course on “Energy management and Energy Audit in Mines” on 9-13 May, 2016 - 3.77 lakh - 14 participants
8. 3 days training course on “Electrical Drives and control for mining excavators” on 3-5 July, 2017 at IIIF, IIT(ISM), Kolkata – (5.93 lakh) 21 participants
9. 5 days training course on ‘Working with Programmable Logic Controller (PLC)-Programming, Troubleshooting & Industry Applications’, held during January 15-19, 2018– (4.5 lakh) **12 participants**
10. Two days workshop “Explosion Protection for Electrical Equipment in Mines and other Hazardous Areas” jointly with ERTL(East), GOI, held during January 30-31, 2018 sponsored by TEQIP-III
11. 4 days training course on “Electrical Drives and Control for Mining Excavators” on 5-7 Dec, 2023 at IIIF, IIT(ISM), Kolkata – 14 participants

Patent

1. Patent published : No. 201731017005 dated 15.05.2017.

Publication Number 46/2018

Title: Low power, portable smart device for real-time monitoring of mine environment and methods thereof

Tanmoy Maity and Mayank Sharma

2. Patent Granted : No. 201731047389 dated 30.12.2017

Patent Number : 376686, Publication Number 49/2018

Title: An arrangement for replacement of bypass diode by relay in a solar photovoltaic system.

Tanmoy Maity, Yogesh Kumar Chauhan, Ankur Kumar Gupta

3. Patent Granted : Application no. 201641030518 on 07.09.2016

Patent Number : 472559 Publication Number 41/2016

Title : Cyclic on-off control for a three output inverter for induction oven with independent control

Jointly with S. Porpandiselvi, D V Bhaskar, N. Viswanathan

4. Patent filed no. 202431068014, Dated 9th Sept. 2024, "Portable enhanced gas hazard prediction system for underground coal mines using DSET filter and 1D CNN classifier", Prof. Tanmoy Maity, Mayank Sharma, and S. Banerjee.
5. Patent filed no. 202431076064 dated 8.10.2024, 'A small-scale straight-blade hybrid Darrieus-Savonius vertical axis wind turbine for urban power generation', Tanmoy Maity, Soumyadip Banerjee and Mihir Datta.

Product/System development

1. Attachable intelligent intrinsic-safe wireless monitoring and alarm device for safety and communication of underground miner
2. Fully solar-powered automatic water pump and sprinkler pilot plant for smart irrigation with IOT based remote control and monitoring

Publications:

(https://scholar.google.co.in/citations?view_op=list_works&hl=en&hl=en&user=oNgAkFUAAAAAJ&sortby=pubdate)

Sr. No.	Author(s)	Year of Publication	Title of the Publications	Journals / Conference Proceedings	Pages
JOURNALS					
1	Tanmoy Maity, D. Ghosh and C. R. Mahata.	Oct, 2005	Effects of Dielectric Dispersion in Multiplier Chips.	International Journal of 'Solid State Electronics' (Elsevier). SCI Vol. 49/10.	1649-1654
2	Tanmoy Maity, Avirup Ghosh, Surajit K Bhunia	Jan 2007	Four-Quadrant Converter Operations for a DC Motor from Personal Computer.	The Institution of Engineers (India) Journal Vol. 87. scopus (Electronics & Telecommunication)	19-23
3	Tanmoy Maity, D. Ghosh and C. R. Mahata.	Nov 2007	Theory and Instrumentation Related to Anomalous Dielectric Dispersion in Ordered Molecular Groups	Sensors & Transducers Journal (International- ISSN 1726-5479), Vol.85, Issue 11. . scopus	1745-1756
4	Tanmoy Maity, D. Ghosh and C. R. Mahata.	Nov 2007	Theory and Instrumentation related to Potentised Homoeopathic Medicines.	The Institution of Engineers (India) Journal. Vol. 88. (Interdisciplinary) . scopus	27 - 31
5	Tanmoy Maity, A. Chatterjee S. Chandra.	August 2008	A Low-cost, PC Interfaced Multipurpose Temperature Controlling System	Sensors & Transducers Journal , Vol.95, Issue 8. . scopus	58-64
6	T.Maity, S.Das, B.Datta	Jan 2009	A PC based Intelligent Wireless Energy Metering and Online Billing Solution for Domestic Consumers	The Institution of Engineers (India) Journal Vol. 89. . scopus (Electronics & Telecommunication)	8-12
7	Tanmoy Maity, D. Ghosh and C. R. Mahata.	April 2010	Effect of Dielectric Dispersion on Potentised Homeopathic Medicines	International Journal 'Homeopathy' (Elsevier). Vol 99(2) SCI	99-103
8	Santosh Sonar Tanmoy Maity	Oct 2012	Z-Source Converter for PMSM Based Grid Connected Wind Power Conversion	International Journal of Advanced Renewable Energy Research, Vol.1 No.9 Scopus	532-536
9	Santosh Sonar Tanmoy Maity	Dec 2012	A New Simple Single Phase AC-AC Switching Voltage Regulator Cum Power Conditioner	Asian Power Electronics Journal, Vol. 6, No. 2	34-38
10	Santosh Sonar Tanmoy Maity	May 2013	Single phase transformerless wide range ac boost voltage regulator based on z-source network	International Journal of Electrical Power and Energy Systems (Elsivier) 47 (2013) SCI	193-197
11	Y.S.Dohare T. Maity P.S.Das, P.S. Paul	July Aug 2013	Low power low cost environment monitoring and control through zigbee in underground mines	Journal of Mines, Metals & Fuels, Vol 61, nos 7 & 8 Scopus	283-286
12	Y.S.Dohare T. Maity P.S.Das, P.S. Paul	Aug 2014	A simple Wireless Real-time Environment Monitoring system for Safety of Underground Miners	Disaster Advances , Vol. 7(8) SCI	82-88
13	Partha sarathi Das, Tanmoy Maity and Yogendra Singh Dohare	Oct 2014	Modeling of Wireless Environment Monitoring System for an Industrial Zone like Underground Mines.	Indian Journal of Natural Sciences Vol 5 Issue 26 Scopus	1861-72

14	Das P. S, Maity T, Dohare Y. S.	Dec 2014	Environment Monitoring of an Enclosed Place Like Underground Mines With Ansys Software and Sensors Based Technology.	Current World Environment Vol. 9 (3). (TR zoological record) Scopus	
15	Ananya Sarkar, P. P. Bhattacharya, Alok Kole, Tanmoy Maity	Nov 2014	Neural network Based Energy Efficiency Enhancement in Wireless Sensor Networks	International Journal of Applied Engineering Research (IJAER) Vol 9, No 22 Scopus	11807-11818
16	H. Prasad, T. Maity, V.K.Singh	Nov 2014	A Simple Transformerless Buck-Boost Switching Voltage Regulator	Asian Power Electronics Journal, Vol. 8, No. 2	57-61
17	B Sharma, I Sarkar, Tanmoy Maity, P. P. Bhattacharya	Nov 2014	An introduction to smart antenna system	International Journal of Business and Engineering Research Vol. 8 Scopus	22-26
18	B. Sharma, I. Sarkar, T. Maity and P. P. Bhattacharya	2014	Comparative Study of DOA Estimation Algorithms	International Journal of Applied Engineering Research Vol. 9, No 24 Scopus	26509-26515
19	Y.S.Dohare T. Maity P.S.Das, P.S. Paul	Mar-April 2015	Wireless Communication & Environment Monitoring in Underground Coal Mines–Review	IETE Technical Review Vol 32(2) DOI 10.1080/02564602.2014.995142 SCI	140-150
20	Hanuman Prasad Tanmoy Maity	Aug 2015	Modelling and Simulation of Trans Quasi Z-source Inverter as an automatic three phase power conditioner	Int J. of Power Electronics Vol. 7, No. ½ Scopus	36-53
21	Hanuman Prasad Tanmoy Maity	Jul 2015	Z-Source Inverter Based Motor Drives for Industrial Medium Voltage Application,	Periodica Polytechnica Electrical Engineering and Computer Science, Vol. 59, No. 2 Scopus	30-35
22	P.S.Das , T. Maity	Sept 2015	Challenges inside underground mines and their prevention techniques	Disaster Advances , Vol. 8(9) SCI	14-17
23	Ananya Sarkar, P. P. Bhattacharya, Tanmoy Maity	Sept 2015	Performance Analysis of Stable Election Protocol for Clustered WSN	International Journal of Applied Engineering Research (IJAER) Vol 10, No 16 Scopus	36730-34
24	J. antony, D. S. Mathuria, T.S. Datta, and Tanmoy Maity	Dec 2015	Development of intelligent instruments with embedded HTTP servers for control and data acquisition in a cryogenic setup- The Hardware, Firmware and Software implementation	Review of Scientific Instruments (AIP) 86(2) (SCI 1.618) SCI	1250031-38
25	H.Prasad T. Maity	2016	Real-time Simulation for Performance Evaluation of Bidirectional Quasi Z-Source Inverter based Medium Voltage Drives	COMPEL: The international Journal for Computation and Mathematics in Electrical and Electronic Engineering Vol. 35, No. 3 (SCI 0.371) SCI	1123-1135
26	V. R. Babu, T. Maity, and H. Prasad	2015	Energy Saving Techniques for Ventilation Fans Used in Underground Coal Mines – A Survey	Journal of Mining Science vol. 51 no. 5 (SCI 0.35) SCI	233-240
27.	H.Prasad T. Maity, V. R. Babu	2015	Recent developments in mine hoist drives	Journal of Mining Science vol.51, no.6 (SCI 0.35) SCI	1057-1062
28	M. Ponnusamy and T. Maity	Jan, 2016	Recent Advancements in Dragline Control Systems	Journal of Mining Science vol.52, no.1 (SCI 0.35) SCI	160-168

29	V Bhaskar D, V Neti, T Maity, P Shunmugam	Sept 2016	Capacitor sharing two output series resonant inverter for induction cooking application	IET Power Electronics Vol. 9, Issue. 11 (SCI 1.683) SCI	2240 – 2248
30	V. Ranjith Babu, Tanmoy Maity, and Hanuman Prasad	May-Jun 2016	Energy saving possibilities for ventilation fan in underground coal mines	Journal of Mines, Metals and Fuels Scopus	123-127
31	P.S.Das, T. Maity	May-Jun 2016	A novel approach for disaster prevention inside underground mines	Journal of Mines, Metals and Fuels Scopus	236-239
32	R. Mandal, T. Maity, S.K. Chaulya, G.M. Prasad, R.Verma	May-Jun 2016	Automation of underground coal mines using PLC	Journal of Mines, Metals and Fuels Scopus	174-180
33	Y.S.Dohare T. Maity P.S. Paul	May-Jun 2016	Design of a sensor board for underground mines environment monitoring system	Journal of Mines, Metals and Fuels Scopus	271-274
34	Hanuman Prasad Tanmoy Maity	Feb 2017	Real-Time performance analysis of Modified Z-Source Inverter-fed Induction Motor Drives using Xilinx System Generator	European Power Electronics (EPE) Journal, Vol 26, No. 4 (SCI 0.6) SCI	142-152
35	V Bhaskar D, V Neti, T Maity, P Shunmugam	May 2017	Hybrid controlled dual frequency inverter for two load induction cooking application	European Power Electronics (TEPE) Journal. Vol 27, No. 2(SCI 0.6) SCI	60-73
36	V. Ranjith Babu, Tanmoy Maity, Sahil Gupta	July, 2017	Adaptive Environment-Friendly Mine Ventilation Fan Speed Control Using PLC	Journal of Engineering Technology, Vol.6, Issue.2 SCI	407 – 413
37	Mritunjay Rai, Tanmoy Maity, R.K.Yadav	July, 2017	Thermal imaging system and its real time applications: a survey	Journal of Engineering Technology, Vol.6, Issue.2 SCI	290 – 303
38	Hanuman Prasad ¹ , Tanmoy Maity	Dec 2017	Modeling and reliability analysis of three phase z-source AC-AC converter	Archives of Electrical Engineering Vol. 66(4) Scopus	.731 -743
39	Gupta, A.K., Chauhan, Y.K. & Maity, T.	Aug 2018	Experimental Investigations & Comparison of Various MPPT Techniques for Photo-voltaic System	Sādhanā (2018) Springer SCI 43: 132. DOI 10.1007/s12046-018-0815-0	Online
40	V Bhaskar D, V Neti, T Maity, P Shunmugam	March 2018	A Three-Output Inverter for Induction Cooking Application with Independent Control	European Power Electronics Journal (TEPE) Vol 28(2) SCI DOI: 10.1080/09398368.2018.1442543	89-99
41	R Verma, T Maity, I Hofsjager	Aug 2018	Multipath Conductors for EMI Filter - Recent Developments	IET Science, Measurement & Technology SCI , : Vol 12 (5), SCI DOI: 10.1049/iet-smt.2017.0148	575 – 580
42	Mayank Sharma Tanmoy Maity	Sept 2018	Low cost low power smart helmet for real-time remote underground mine environment monitoring	Wireless Personal Communications SCI DOI.ORG/10.1007/s11277-018-5831-1, Vol 102 (1) SCI	149 – 162
43	Antony Joby, Choudhry Anup, Datta T.S., Maity Tanmoy	Jan 2018	Ethernet based instrument-device-servers & IoT to replace PLC, CAMAC, VME based Cryogenic CDAQ system	Indian Journal of Cryogenics Vol: 43 (1) doi : 10.5958/2349-2120.2018.00025.0	148-154
44	Gupta, A.K., Chauhan, Y.K. & Maity, T.	Oct 2018	A new Gamma scaling Maximum Power Point Tracking method for Solar Photo-voltaic Panel Feeding Energy Storage System	IETE Journal of Research SCI DOI 10.1080/03772063.2018.1530617	Online

45	Md. A A Sheikh; Alok Kole; Tanmoy Maity	Dec 2018	A Multi-Level Approach for Change Detection of Buildings Using Satellite Imagery	International Journal on Artificial Intelligence Tools Vol. 27, No. 8 SCI DOI: 10.1142/S0218213018500318	185 003 11- 19
46	Agha Asim Husain, Tanmoy Maity, R K Yadav	Sept 2019	Vehicle detection in intelligent transport system under a hazy environment: a survey	IET Image Processing Vol. 14 Iss. 1 SCI doi: 10.1049/iet-ipr.2018.5351	1-10
47	Md. A A Sheikh, A Kole, T Maity	2019	Two Stage Smooth Path Planning for Mobile Robot for Optimal Obstacle Avoidance Problem in Unknown Environment	World Journal of Modelling and Simulation, Vol. 15(3) scopus	302- 320
48	<u>Sushma Kakkar, R K Ahuja, Tanmoy Maity</u>	January, 2020	Performance enhancement of grid-interfaced inverter using intelligent controller	Measurement and Control, Vol 53 (3-4) SCI https://doi.org/10.1177/0020294019879171	551- 563
49	R. Mandal, R. Kumar, S. Ansari, D.Kumar, S.K. Chaulya, G.M. Prasad, T. Maity	Feb 2020	Underground Coal Gasification Techniques for Different Geo-mining Conditions	International Journal of Oil, Gas and Coal Technology Vol. 23, No. 2, SCI doi: 10.1504/ijogct.2018.10013762	199- 217
50	Indra Kumar Shah, Tanmoy Maity, Y S Dohare	Feb 2020	Algorithm for Energy Consumption Minimisation in Wireless Sensor Network	IET Communications, Vol 14, issue 8 SCI	130 1-10
51	R Mandal, Tanmoy Maity, S.K. Chaulya, G.M. Prasad	Sept 2020	Laboratory investigation on underground coal gasification technique with real-time analysis	FUEL Vol 275 (117865) SCI https://doi.org/10.1016/j.fuel.2020.117865	
52	Ankur K Gupta, Y. K. Chauhan, Tanmoy Maity, R.Nanda	April 2020	Study of Solar PV Panel Under Partial Vacuum Conditions: A Step Towards Performance Improvement	IETE Journal of Research, DOI: 10.1080/03772063.2020.1749145 SCI	
53	Rabi Raul, Tanmoy Maity, S Palit	May 2020	Challenges and viability of use of PLC for personal communication in underground coal mines	IETE Journal of Research SCI doi.org/10.1080/02564602.2020.1757519	
54	Indranil Sarkar, M Mukhopadhyay, Tanmoy Maity	April 2020	A New Blind DOA Estimation Using Two Uniform Linear Array for Low Side Lobe Adaptive Array	Journal of Scientific & Industrial Research, Vol. 79 SCI	312 – 314
55	P. Manikandan, T. Maity	June 2020	Performance Analysis of a Digitally Retrofitted Ward–Leonard Control Dragline—A Case Study in Coal Mine	Journal of Mining Science, Vol 56, issue 1 SCI	59- 65
56	Ankur K Gupta, Tanmoy Maity, Anandakumar H Y. K. Chauhan,	Nov 2020	An electromagnetic strategy to improve the performance of PV panel under partial shading	Computers and Electrical Engineering SCI https://doi.org/10.1016/j.compeleceng.2020.106896	
58	M Panda, V Bhaskar. T Maity	Feb 2021	A novel dc bus-signaling based power management strategy for dc microgrid	International Transactions on Electrical Energy Systems Vol 31(2) SCI http://dx.doi.org/10.1002/2050-7038.12758	
59	Joby Antony, Tanmoy Maity	Jan 2021	Analysis of Ethernet control network	IETE Journal of Research DOI: 10.1080/03772063.2020.1871427 SCI	
60	Mritunjay Rai, Tanmoy Maity, R.K.Yadav	Jan 2022	An Improved Statistical Approach for Moving Object Detection in Thermal Video Frames	Multimedia Tools Applications Vol 81, https://doi.org/10.1007/s11042-021-11548-x Q2	928 9– 931 1

61	Sushma Kakakr, Tanmoy Maity, et al	Sept 2021	Design and Control of Grid-Connected PWM Rectifiers by Optimizing Fractional Order PI Controller Using Water Cycle Algorithm	IEEE Access Vol.9 Q2	125 941-54
62	Mritunjay Rai, Tanmoy Maity, R Sharma, R.K.Yadav	March 2022	Early Detection of Foot Ulceration in Type II Diabetic Patient using Registration method in Infrared Images and descriptive comparison with Deep Learning Methods	The Journal of Supercomputing https://doi.org/10.1007/s11227-022-04380-z Q2 (2.474)	
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