

# R&D Data Format

**Session 2021-2022 (August-2021 to July-2022)**

## Journal Paper

S.No	Author(s), in sequence as mentioned in the paper	Title	Journal and Publisher Name	Volume, Issue, ISSN, Page No, Year of Publication	Indexing (SCIE/SSCI/AHCI/ESCI / Scopus ), if not index, write no	Impact Factor (Clarivate or equivalent agency only)	Department in abbreviation	Session	DOI (in the form of the link)
<b>Dr. A. Ambikapathy (Prof. and HoD)</b>									
1	Arunprasad Govindharaj, Anitha Mariappan, A. Ambikapathy, Hassan Haes Alhelou Vikas Singh Bhadoria	Real-Time Implementation of Adaptive Neuro Backstepping Controller for Maximum Power Point Tracking in Photo Voltaic Systems	IEEE Access  IEEE	Vol. 9  2169-3536	SCI	3.476	EEE	2021-2022  July 2021	10.1109/ACCESS.2021.3099158
2	Kanhaiya Kumar, Lokesh Varshney, A Ambikapathy, Vrinda Mittal, Sachin Prakash, Prashant Chandra, Namya Khan	Soft computing and IoT based solar tracker	International Journal of Power Electronics and Drive Systems	vol 12  Issue 3	Scopus	NA	EEE	2021-2022  Sep EEE 2021	10.11591/ijpeds.v12.i3.pp1880-1889
4	Kanhaiya Kumar, Lokesh Varshney, Aladiyan Ambikapathy, Ram Khelawan Saket, Saad Mekhilef	Solar tracker transcript—A review	International Transactions on Electrical Energy systems	VOL 31 ISSUE 12	SCI	2.639	EEE	2021-2022  DEC 2021	10.1002/2050-7038.13250

## Dr. Ravendra Singh

1	<b>Ravendra Singh</b> and Dinesh Prasad	Electronically Tunable SIMO type Mixed-mode Biquadratic Filter using Single FTFNTA	Indian Journal of Pure and Applied Physics, NISCAIR-CSIR, India	vol. 59(9), ISSN: 0975-1041, pp. 629-637, 2021	SCIE	0.846	EEE	2021-22	10.56042/ijpap.v59i9.46230
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## Dr. Neha Jain

1.	Neha Jain, Sujata Pandey, Rajiv Kr. Singh and O. P. Sinha	Double co-host emitter based top emitting white organic light emitting diodes with enhanced brightness and efficiency	OPTOELECTRO NICS LETTERS, Springer	Vol.17 No.10, 15 October 2021	SCI	0.9	EEE	2021-2022	<a href="https://link.springer.com/article/10.1007/s11801-021-0183-6">https://link.springer.com/article/10.1007/s11801-021-0183-6</a>
2.	Neha Jain, Vikas Singh, Vivek Prajapati	Investigation of Efficient Hole Injection Layer for Enhancement of Opto-Electrical Properties of an Organic Light Emitting Diode	Journal of Physics conference series	2062, 1742-6596, 1, 2021	Scopus		EEE	2021-2022	<a href="https://iopscience.iop.org/article/10.1088/1742-6596/2062/1/012025/meta">https://iopscience.iop.org/article/10.1088/1742-6596/2062/1/012025/meta</a>

## Dr. Ravendra Singh

<b>Ravendra Singh</b> and Dinesh Prasad	Electronically Tunable SIMO type Mixed-mode Biquadratic Filter using Single FTFNTA	Indian Journal of Pure and Applied Physics, NISCAIR-CSIR, India	vol. 59(9), ISSN: 0975-1041, pp. 629-637, 2021	SCIE	0.846	EEE	2021-22	10.56042/ijpap.v59i9.46230	
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## Conference

S.No.	Author(s), in sequence as mentioned in the paper	Title	Conference Name and its details	ISSN/ ISBN, Page No, Year of Publication	Indexing (Scopus/ WoS), If not index, write No	Department in abbreviation	Session	DOI (in the form of the link)
<b>Dr. A. Ambikapathy (Prof. and HoD)</b>								
1	Shreya Singh, Tapish Kumar, Riya Baliyan, Osama Haseeb, A Ambikapathy, Arunprasad Govindharaj, T Ezhilan	Backstepping Controller with Neural Networks for MPPT in Photovoltaic Systems	ICACITE 2022	978-1-6654- 3789-9 April 2022	Scopus	EEE	2021-2022	10.1109/ICACITE53722.2022.9823789
2	Kanhaiya Kumar, Lokesh Varshney, A Ambikapathy, Kajol Malik, Kumari Vanshika, Aryan Vats	Image Denoising by Wavelet Based Thresholding Method	ICACITE 2022	978-1-6654- 3789-9 April 2022	Scopus	EEE	2021-2022	10.1109/ICACITE53722.2022.9823415
3	A Ambikapathy, Ezhilan Thirunavukkarasu, Arunprasad Govindharaj, Shiva Yadav, Sunil Kumar, Suraj Kumar Yadav, Ujjwal Kumar Gupta, P Jayaraman	Sliding Mode Neural Network Controller for PV	ICACITE 2022	978-1-6654- 3789-9 April 2022	Scopus	EEE	2021-2022	10.1109/ICACITE53722.2022.9823469
4	A Ambikapathy, Arunprasad Govindharaj, Ezhilan Thirunavukkarasu, Vishal Yadav, Sibghat Ullah	Sliding Mode Backstepping Controller	ICACITE 2022	978-1-6654- 3789-9 April 2022	Scopus	EEE	2021-2022	10.1109/ICACITE53722.2022.9823430

	Khan, Shubham Kumar Yadav, Shubham Soni							
5	T Ezhilan, Arunprasad Govindharaj, A Ambikapathy, Braj Mohan Prajapati, Manish Kumar, Amit Vikram Singh, Polash Kumar Das	Adaptive Sliding Mode Fuzzy Logic Controller for PV Battery System	ICACITE 2022	978-1-6654- 3789-9 April 2022	Scopus	EEE	2021-2022	10.1109/ICACITE53722.2022.9823722
6	Abhimanyu Rawat, Janvee Yadav, Kriti Yadav, Kushagra Singh, A Ambikapathy, Arunprasad Govindharaj	Speed Control of Diesel Generator Using Sliding Mode Controller	2021 Asian Conference on Innovation in Technology (ASIANCON)	978-1-7281- 8402-9  August 2021	Scopus	EEE	2021-2022	10.1109/ASIANCON51346.2021.9544608
7	Shivam Kumar, Tarun Chauhan, Shwetank Rai, Zeeshan Ali, Arunprasad Govindharaj, A Ambikapathy	Controlling Bidirectional Power Flow Of BESSs In DC Microgrids using Sliding Mode Controller	2021 Asian Conference on Innovation in Technology (ASIANCON)	978-1-7281- 8402-9  August 2021	Scopus	EEE	2021-2022	10.1109/ASIANCON51346.2021.9545024
8	Shivangi Dwivedi, Pritika Yadav, Priyanshi Gupta, A Ambikapathy, J Arunprasad Govindhara, Rajesh Narayan Deo	Performance Analysis of Fuel Cell Based Boost Converter Using Sliding Mode Controller	2021 Asian Conference on Innovation in Technology (ASIANCON)	978-1-7281- 8402-9  August 2021	Scopus	EEE	2021-2022	10.1109/ASIANCON51346.2021.9544631
9	A Ambikapathy, Arunprasad Govindharaj, Prakhar Dixit, Shreya Yadav, Ezhilan Thirunavukkarasu, Sudhakar Singh, Shaky Neetu Tulsiram, S Arun	Adaptive backstepping fuzzy logic controller for the pv battery system	ICACITE 2022	978-1-6654- 3789-9 April 2022	Scopus	EEE	2021-2022	10.1109/ICACITE53722.2022.9823828
10	Alok Kr Upadaya, Anand Utakarsh, Prakhar Singh, A	Finding The Efficient Method of Solar Powered	ICACITE 2022	978-1-6654- 3789-9 April 2022	Scopus	EEE	2021-2022	10.1109/ICACITE53722.2022.9823591

	Ambika Pathy	Vaccine Storage Refrigerator						
11	Arpit Sharma, Adarsh Kashyap, Ayushi Saxena, Arunprasad Govindharaj, A Ambikapathy	Active Power Flow Control in Inverter using Sliding Mode Controller	2021 Asian Conference on Innovation in Technology (ASIANCON)	978-1-7281-8402-9 August 2021	Scopus	EEE	2021-2022	10.1109/ASIANCON51346.2021.9544527
12	Akarsh Saxena, Ahmad Faraz, Himanshu Singh, Arunprasad Govindharaj, A Ambikapathy	Improved transient analysis in maximum power point tracking for PV array using sliding mode controller	2021 Asian Conference on Innovation in Technology (ASIANCON)	978-1-7281-8402-9 August 2021	Scopus	EEE	2021-2022	10.1109/ASIANCON51346.2021.9544720
13	Om Hari Pandey, Vaibhav Sharma, Shashi Shekhar, A Ambikapathy, Arunprasad Govindharaj	Design & Analysis of Sliding Mode Controller for Fuel Cell based DC-DC Boost Converter fed by PMDC Motor	2021 Asian Conference on Innovation in Technology (ASIANCON)	978-1-7281-8402-9 August 2021	Scopus	EEE	2021-2022	10.1109/ASIANCON51346.2021.9544908

### Dr. Gauri Katiyar

1	Gauri Katiyar, Saumya Priya, Vivek Singh, Varsha Sahaw, Yash Mathur, Vikas Gupta	Face Age Estimation :A Survey	2 <sup>nd</sup> Int. Conf on Advance Computing and Innovative Technologies in Engineering ICACITE-2022, 28-29 April 2022	Pp:2312-2316, 2022	SCOPUS	EEE	2021-22	<a href="https://doi.org/10.1109/ICACITE53722.2022.9823726">https://doi.org/10.1109/ICACITE53722.2022.9823726</a>
2	Saurabh Kumar Sinha, Surjit Kumar, Rahul Chandola, Sunny Kumar, Gauri Katiyar	Plant Identification Using Machine Learning	2021 Asian Conference on Innovation in Technology(ASIANCON), Pune Aug 28-29 2021	Pp:1-4, 2021	SCOPUS	EEE	2021-22	<a href="https://doi.org/10.1109/ASIANCON51346.2021.9544670">https://doi.org/10.1109/ASIANCON51346.2021.9544670</a>

### Dr. Kiran Srivastava

1	Kiran Srivastava, Vedant Kushwaha, Vivek Kumar, Yatendra Narayan, Vivek Singh	Auto Power Control System from Four Different Sources	3 <sup>rd</sup> International Conference on Communication and Information Processing (ICCIP-2021) Available on: SSRN (SSRN is an open-access online preprint community, owned by Elsevier.)	ISSN 2352-5398	SSRN	EEE	2021-22	<a href="https://papers.ssrn.com/sol3/papers.cfm?abstract_id=3917533">https://papers.ssrn.com/sol3/papers.cfm?abstract_id=3917533</a>
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2	Puneet chandra Srivastava , Leena Sharma , Kiran Srivastav, Praveen Kumar Malik	Designing of Cavity Filter with Slot Coupling Mechanism for ku Band	Recent Innovations in Computing, Proceedings of ICRIC 2021	ISSN : 2193-1801	WOS	EEE	2021-22	<a href="https://link.springer.com/chapter/10.1007/978-981-16-8892-8_2">https://link.springer.com/chapter/10.1007/978-981-16-8892-8_2</a>
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## Dr. Reena Sharma

1	Ayush Saxena; Reena Sharma	Biofuel: A Dynamic Source of Renewable Energy	2022 2nd International Conference on Advance Computing and Innovative Technologies in Engineering (ICACITE)	978-1-6654-3789-9	Scopus	EEE	2021-22	10.1109/ICACITE53722.2022.9823630
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## Mr. Manish Shrivastava

1	Manish Shrivastava, Sandeep Kumar Verma, Prakhar Singh, Prince Kumar Singh	Controlling Transmission line power parameters using UPFC	2021 Asian Conference on Innovation in Technology (ASIANCON) IEEE Xplore	ISBN:978-1-7281-8403-6, 04 October 2021	SCOPUS	EEE	2021-22	DOI: 10.1109/ASIANCON51346.2021.9545037
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## Dr. Ravendra Singh

1	<b>Ravendra Singh</b> , T. G. Sabir, Laxya, T. Ali and A. Kumar	Voltage-mode Low-Pass Filter Using FTFNTA	2nd International Conference on Advance Computing and Innovative Technologies in Engineering (ICACITE), Greater Noida, India	ISBN: 978-1-6654-3789-9, pp. 2565-2569, 2022	Scopus	EEE	2021-22	10.1109/ICACITE53722.2022.9823863
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## Mrs. Kalpana Hazarika

1	<b>K. Hazarika</b> , Gauri Katiyar, Noorul Islam	IoT Based Transformers Health Monitoring	ICACITE-2021		Scopus	EEE, GCET	2021-22	DOI: <a href="https://doi.org/10.1109/ICACITE51222.2021.9404657">10.1109/ICACITE51222.2021.9404657</a>
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		System: A Survey						
<b>Mr. Navneet Mishra</b>								
1	Praveen Kumar Maduri; Gauransh Singh; Sanskriti Sharma; Rishabh Kumar Mishra; Navneet Kumar Mishra	Seat Belt And Helmet Detection Using Deep Learning	<b>2021 3rd International Conference on Advances in Computing, Communication Control and Networking (ICAC3N)</b>	978-1-6654- 3811-7 1-5 09 March 2022	Scopus	EEE	2021-22	<a href="https://doi.org/10.1109/ICAC3N53548.2021.9725574">10.1109/ICAC3N53548.2021.9725574</a>

### Book

S. No.	Author(s), in sequence as mentioned in the paper	Title	Indexing (Scopus/WoS), if not index, write no	ISSN/ ISBN, Year of Publication	Name of the publisher	Role(Editor/ Author)	Department in abbreviation	Session
1	Ambikapathy, Shobana R., Logavani, Dharmasa	Reinvention of Health Applications with IoT: Challenges and Solutions	Scopus	978-0-367-76334-3	CRC-Taylor and Francis	Editor	EEE	2020-2021 December 2021

### Book Chapter

S. No.	Author(s), in sequence as mentioned in the paper	Title	Indexing (Scopus/WoS), if not index, write no	ISSN/ ISBN, Page No, Year of Publication	Name of the publisher	Department in abbreviation	Session
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1	Shiva Pujan Jaiswal, Vikas Singh Bhadoria, Ranjeeta Singh, Vivek Shrivastava, A. Ambikapathy	Case Study on Modernization of a Micro-Grid and Its Performance Analysis Employing Solar PV Units		9781003218760  2022	CRC Taylor and francis	EEE	2021-2022
<b>Dr. Kiran Srivastava</b>							
1	Charu Tyagi1,*, Puneet Chandra Srivastava2, Patrika Jayanti3 and Kiran Srivastava4 1 Department of	Fractal and Defected Ground Structure Microstrip Antenna for Wireless Applications	WOS	Smart Antennas: Recent Trends in Design and Applications, 2021, Vol. 2, 11-27	Bentham Science Publisher	EEE	2021-22
<b>Mrs. Sobhna R</b>							
1	R. Shobana, A. Ambikapathy, Kalpana Hazarika, Amit Kumar Gupta	Predictive Analytics in Healthcare Using Machine Learning Tools and Techniques	Scopus	9781003050827, December 2021	Taylor and Francis Group	EEE	2021-22
<b>Mrs. Kalpana Hazarika</b>							
1	Kalpana Hazarika, A. Ambikapathy, R. Shobana, Amit Agrawal	Visual Analytics Scopes and Challenges	Scopus	9781003050827, December 2021	Taylor and Francis Group	EEE	2021-22



## Patent

S. No.	Patent Application No.	Status of Patent ( Published / Granted)	Inventor(s) Name as per the sequence mentioned on the patent	Title of the Patent	Applicant/s Name	Patent Filed Date (DD/MM/YYYY)	Patent Published Date / Granted Date (DD/MM/YYYY)
<b>Dr. A. Ambikapathy (Prof. &amp; HOD)</b>							
1	346741-001	Granted	1.Dr. Kinnarry Thakkar 2. Dr. Pankaj Dadheech 3. Dr Mahesh Ramakant Patil 4. Krushnavadan Ramjibhai Parmar, 5. Basant Lal 6. Dr. Abhijit Dey 7. A Ambikapathy 8. Dr Himabindu 9. Dr.K.kavita 10. Prof. Ramesh Chandra Panda 11. Dr P Karthigeyan	Wi-Fi Based Oxygen Concentrator	1.Dr. Kinnarry Thakkar 2. Dr. Pankaj Dadheech 3. Dr Mahesh Ramakant Patil 4. Krushnavadan Ramjibhai Parmar, 5. Basant Lal 6. Dr. Abhijit Dey 7. A Ambikapathy 8. Dr Himabindu 9. Dr.K.kavita 10. Prof. Ramesh Chandra Panda 11. Dr P Karthigeyan	26.07.2021	06.05.2022
2	20--2021- 104-173	Granted	A.Ambikapathy, Dharmasa, Pooja, G Kanimozhi, Rajan Nagar, Ashwani /kumar, Dhilip kumar, Nagendra Kumar,	Solar Energy Powered Smart Helmet Device	A.Ambikapathy, Dharmasa, Pooja, G Kanimozhi, Rajan Nagar, Ashwani /kumar, Dhilip kumar, Nagendra Kumar,	05.08.2021	12.08.2021

			Sampath kumar kuppusamy , Akhilesh singh, Ankit kumar Srivastava and T Ganesh kumar.		Sampath kumar kuppusamy , Akhilesh singh, Ankit kumar Srivastava and T Ganesh kumar.		
<b>Mrs. Sobhna R</b>							
1.	349271-001	Published	1. Dr. Nagendra Kumar,2. Akhilesh Singh,3. Dr. A. Ambikapathy,4. Brijesh Kumar,5. Varun Kumar,6. Gaurav kumar singh,7. Ohene-Akoto Justice,8. Shobana.R,9. Yogesh Kumar,10. Amit kumar yadav,11. Mr. Pandian R,	Smart electric toothbrush	1. Dr. Nagendra Kumar,2. Akhilesh Singh,3. Dr. A. Ambikapathy,4. Brijesh Kumar,5. Varun Kumar,6. Gaurav kumar singh,7. Ohene-Akoto Justice,8. Shobana.R,9. Yogesh Kumar,10. Amit kumar yadav,11. Mr. Pandian R,	09/09/2021	19/11/2021

**Funded/ Consultancy Project**

S.No.	Title of the project	Name of the Principal Investigator/Co-investigator	Year of approval/starting	Amount Sanctioned (in lakhs)	Duration of the project	Name of the Funding Agency	Department abbreviation	Type (Funded/Constancy)	Type (Government/non-Government)
<b>Dr. A. Ambikapathy (Prof. &amp; HOD)</b>									
1	Solar powered electric vehicle charging station using neuro sliding back stepping controller	Mr.Akhilesh Singh / Dr. A. Ambikapathy	2022	Rs. 6,37,000	2 years	Uttarakhand state council for science and Technology	EEE	Funded	Govt

**Ph.D. Supervised**

S.No.	Supervisor Name	Candidate Name	Department of Supervisor	Ph. D. Title, University Name, Date of starting, Current Status
<b>Dr. A. Ambikapathy (Prof. &amp; HOD)</b>				
1	Dr.A Ambikapathy	Kanaiyah Kumar	EEE	EFFICIENT SOLAR ENERGY HARVESTING USING IMAGE PROCESSING AND SOFT COMPUTING TECHNIQUE/ Galgotias University / On going

**Ph.D. Awarded**

S.No.	Candidate Name	Department in abbreviation	Ph. D Title, University, Session of Awarding Ph.D. Degree