

R&D Data Format

Session 2020-2021 (August-2020 to July-2021)

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) |
|---|---|--|---|---|--|---|----------------------------|-----------------------|---|
| Dr. A. Ambikapathy (Prof. & HOD) | | | | | | | | | |
| 1 | Achyut Shankar, Nithya Rekha Sivakumar, M. Sivaram, A. Ambikapathy , Truong Khang Nguyen & Vigneswaran Dhasarathan | Increasing fault tolerance ability and network lifetime with clustered pollination in wireless sensor networks | Journal of Ambient Intelligence and Humanized Computing | 12/ 2285-2298 July 2021 | ESCI | NA | EEE | 2020-2021 (July 2020) | https://link.springer.com/article/10.1007/s12652-020-02325-z |
| Dr. Ravendra Singh | | | | | | | | | |
| 1 | Dinesh Prasad, Ravendra Singh , Ashish Ranjan and Tarun Kumar Huirem | Grounded Capacitors Single Resistance | Indian Journal of Pure and Applied | vol. 58(7), ISSN: 0975-1041, pp. 525-530, | SCIE | 0.846 | EEE | 2020-21 | 10.56042/ijpap.v58i7.30423 |

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|---|---|---|--|---|--------|----|-----|---------|-------------------------------|
| | | Controlled Oscillator using single FTFNTA | Physics, NISCAIR-CSIR, India | 2020 | | | | | |
| 2 | Ravendra Singh and Dinesh Prasad | Electronic Tuneable Grounded and Floating FDNR using FTFNTA | Australian Journal of Electrical and Electronics Engineering, Taylor & Francis | vol. 18(13), ISSN: 2205-362X, pp. 209-215, 2021 | Scopus | na | EEE | 2020-21 | 10.1080/1448837X.2021.1948725 |

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) |
|---|--|---|--|--|--|----------------------------|-----------|---|
| Dr. A. Ambikapathy (Prof. & HOD) | | | | | | | | |
| 1 | Harshit Mishra, Alok Kumar, Mohit Sharma, Mradul Singh, Reena Sharma, A. Ambikapath | Application of Augmented Reality in the field of Virtual Labs | International conference on Advance computing and innovative technologies in engineering | 978-1-7281-7741-0 April 2021 | Scopus | EEE | 2020-2021 | 10.1109/ICACITE51222.2021.9404705 |

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| | y | | | | | | | |
| 2 | Amit Agrawal; Ashish Shrivastava; Shubham Tiwari; A. Ambikapathy; Amit Rai | Performance analysis of Luo converter in continuous conduction mode (CCM) for electric vehicle | AIPConferenceProceedings/ AIPPublishingLLC | | Scopus and WOS | EEE | 2020-2021 | https://doi.org/10.1063/5.0031797 |
| 3 | G Kanimozhi, OV Gnana Swathika, K Logavani, A Ambikapathy | High gain DC-DC converter with extendable APIC's | Materials today proceedings | | Scopus and WOS | EEE | 2020-2021 | https://doi.org/10.1016/j.matpr.2020.10.953 |
| 4 | A. Ambikapathy, Ayush Kumar, Jaspal Verma, Gajendra Singh & Reena Sharma | Arduino Based Accident Prevention Technique Using Eye Blink Sensor | Lecture Notes in Electrical Engineering book series (LNEE,volume 690) | Jan 2021 | Scopus | EEE | 2020-2021 | https://link.springer.com/chapter/10.1007/978-981-15-7504-4_36 |
| 5 | A. | Fuzzy | Lecture Notes in | Jan 2021 | Scopus | EEE | 2020- | https://link.springer.com/chapter/10.1007/978- |

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|---|--|---|---|----------|--------|-----|-----------|---|
| | Ambikapathy, Antriksh Panwar, Ankur Bharadwaj, Ravendra Singh, Amit Agrawal & Jay Singh | Logic-Based Control of Autonomous Underwater Vehicle System Balance Verification Using Simulation | Electrical Engineering book series (LNEE,volume 690) | | | | 2021 | 981-15-7504-4 34 |
| 6 | A Ambikapathy, Jyotiraditya Sandilya, Ankit Tiwari, Gajendra Singh, Lochan Varshney | Analysis of Object Following Robot Module Using Android, Arduino and Open CV, Raspberry Pi with OpenCV and Color Based Vision Recognition | Lecture Notes in Electrical Engineering book series (LNEE,volume 690) | Jan 2021 | Scopus | EEE | 2020-2021 | https://link.springer.com/chapter/10.1007/978-981-15-7504-4_35 |

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|--------------------------|---|---|---|------------------------------------|--------|-----|-----------|---|
| 7 | A. Ambikapathy , Shubham Namdev, Sahil Gupta, Tuset Dwiz, Shil Ahmad Siddiqui & Gajendra Singh | Comparative Analysis of Different PLL Techniques Used in Grid-Connected PV System | Lecture Notes in Electrical Engineering book series (LNEE,volume 690) | Jan 2021 | Scopus | EEE | 2020-2021 | https://link.springer.com/chapter/10.1007/978-981-15-7504-4_32 |
| 8 | A. Ambikapathy , Deepak Kumar, Kshitij Bhatnagar, Aman Srivastava, Abu Bakar & Gajendra Singh | Identification of Suitable PLL Technique for Grid-Connected PV System | Lecture Notes in Electrical Engineering book series (LNEE,volume 690) | Jan 2021 | Scopus | EEE | 2020-2021 | https://link.springer.com/chapter/10.1007/978-981-15-7504-4_33 |
| Dr. Gauri Katiyar | | | | | | | | |
| 1 | Sarthak Bhardwaj, Shivam Vishwakarma, Suneel Kumar, Sagar Jaiswal and Gauri | Identification of Currency via Image Recognition | IEEE , ICACITE-2021- 4-5 March 2021, GCET, Gr. Noida | 978-1-7281-7741-0 pp-609-613, 2021 | SCOPUS | EEE | 2020-21 | https://doi.org/10.1109/ICACITE51222.2021.9404760 |

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| | Katiyar | | | | | | | |
| Dr. REENA SHARMA | | | | | | | | |
| 1 | Shreya Gupta; Shivanshu Giri; Tushar Srivastava; Pavan Agarwal; Reena Sharma; Amit Agrawal | Smart Refrigerator based on 'Internet of Things' | 2021 International Conference on Advance Computing and Innovative Technologies in Engineering (ICACITE) | | Scopus | EEE | 2020-21 | 10.1109/ICACITE51222.2021.9404612 |
| 2 | Mukul Kumar, Reena Sharma, Mohit Kushwaha, Atul Kumar Yadav, Md Tausif Ahmad & A. Ambikapathy | Solar Tracker With Dust Removal System: A Review | ETAERE 2020 | | Scopus | EEE | 2020-21 | https://doi.org/10.1007/978-981-15-8685-9_15 |
| Dr. Neha Jain | | | | | | | | |
| 1. | Neha Jain, O. P. Sinha, S. Pandey and R. K. Singh | Micro-Cavity Nano-Layered Organic Light Emitting Diode to Improve Light Extraction and Electrical Properties of | 2020 International Conference on Contemporary Computing and Applications (IC3A), Lucknow, India | ISBN:978-1-7281-5432-9 2020, pp. 98-101, | Scopus | EEE | 2020-2021 | https://ieeexplore.ieee.org/abstract/document/9076905 |

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| | | the Device | | | | | | |
| Mr. Lochan Varshney | | | | | | | | |
| 1. | Aditi Yadav; Dev Yadav; Kunal Kishore; Lochan Varshney; Md. Sajid Alam | Dynamic Voltage Restorer along with Active and Passive Filter for Power Quality Improvemen t in Distribution Network | 2021 International Conference on Advance Computing and Innovative Technologies in Engineering (ICACITE) | 978-1- 7281-7741- 0 | Scopus | EEE | 2020- 2021 | https://ieeexplore.ieee.org/document/9404554 |
| Mr. Chandan Kumar | | | | | | | | |
| 1 | Gaurav K. Singh; Mitali Garg; Lalit K. Singh; Hem ant Kumar; Chandan Kumar | Designing & Simulatio n for Maximum Power Tracking of Photovoltaic System using Fuzzy Logic Algorithm | IEEE , ICACITE- 2021- 4-5 March 2021, GCET, Gr. Noida | 978-1- 7281- 7741-0 pp-941- 946, 2021 | SCOPUS | EEE | 2020-21 | 10.1109/ICACITE51222.2021.9404559 |
| Mrs. Sobhna. R | | | | | | | | |
| Shobana R, Deepa | Shobana R, Deepak Mishra, | Shobana R, Deepak Mishra, | Shobana R, Deepak Mishra, Ankit Yadav, Anchit varma | Shobana R, Deepak Mishra, | Shobana R, Deepak Mishra, | Shobana R, Deepak | Shobana R, Deepak Mishra, | Shobana R, Deepak Mishra, Ankit Yadav, Anchit varma |

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| k Mishr a, Ankit Yadav , Anchit varma | Ankit Yadav, Anchit varma | Ankit Yadav, Anchit varma | | Ankit Yadav, Anchit varma | Ankit Yadav, Anchit varma | Mishra, Ankit Yadav, Anchit varma | Ankit Yadav, Anchit varma | |
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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 |
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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 |
|---|--|-------|--|--|--------------------------|-------------------------------|---------|
| Dr. A. Ambikapathy (Prof. & HOD) | | | | | | | |

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|---|---|---|--------|------------------------|----------|-----|-----------|
| 1 | Ahmad Faraz, A. Ambikapathy , Saravanan Thangavel, K. Logavani & G. Arun Prasad | Battery Electric Vehicles (BEVs) Book Title “Electric Vehicles Modern Technologies and Trends” | SCOPUS | ISBN 978-981-15-9250-8 | Springer | EEE | 2020-2021 |
| 2 | Himanshu Singh, A Ambikapathy , K Logavani, G Arun Prasad, Saravanan Thangavel | Plug-In Hybrid Electric Vehicles (PHEVs)” Book Title “Electric Vehicles Modern Technologies and Trends” | SCOPUS | ISBN 978-981-15-9250-8 | Springer | EEE | 2020-2021 |
| 3 | K Logavani, A Ambikapathy , G Arun Prasad, Ahmad Faraz | “Smart Grid, V2Gand Renewable Integration” Book Title “Electric Vehicles Modern Technologies and Trends” | SCOPUS | ISBN 978-981-15-9250-8 | Springer | EEE | 2020-2021 |

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|---|---|---|--------|--------------------|------------------------|-----|-----------|
| 4 | T. Saravanan, A. Ambikapathy , Ahmad Faraz, Himanshu Singh | Blockchain and Big Data for Decentralized Management of IoT-Driven Healthcare Devices Title: Exploratory Data Analytics in Healthcare | SCOPUS | ISBN 9781003081180 | CRC Taylor and Francis | EEE | 2020-2021 |
|---|---|---|--------|--------------------|------------------------|-----|-----------|

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) |
|---|------------------------|--|---|---|---|--------------------------------|---|
| Dr. A. Ambikapathy (Prof. & HOD) | | | | | | | |
| 1 | 2021100065 | Granted | Vaish, Arti; Kumar Goswami, Pankaj; Goswami, Garima; Singh Bhadoria, Vikas; Ambikapathy, A.; | An automatic spectacles senses to protect eye from excessive harmful optical radiations | Arti Vaish, Pankaj Kumar Goswami, Garima Goswami, Vikas Singh Bhadoria, A. Ambikapathy, Prateek | 06.01.2021 | 10.03.2021 |

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|----------|------------|----------------|---|--|---|------------|-------------------|
| | | | Agarwal, Prateek and Agrawal, Amit | | Agarwal & Amit Agrawa | | |
| 2 | 2021100300 | Granted | Sharma, Ashis; Mallick, Pradeep Kumar; Dhal, Sunil Kumar; Mishra, Sambit Kumar; Chae, Gyoo Soo; A., Ambikapathy; S., Saravana Kumar; R., Arthi; Basa, Santi Swarup; Govindharaj, Arun prasad; MUTHYALA, RAJU and G., Bhasker | Machine Learning-based Smart Workout System | Pradeep Kumar Mallick, Ashis Sharma, Sambit Kumar Mishra, Ambikapathy A, Arthi R, Santi Swarup Basa, Arun prasad Govindharaj, RAJU MUTHYALA and Bhasker G | 18.01.2021 | 31.03.2021 |
| 3 | 2021100502 | Granted | Agrawal, Nikhil; Singh, Vinod Kumar; Bangari, Naresh; Saxena, Anurag; Khare, Bharat Bhushan; Lohia, Akanksha; A., Ambikapathy and Bhoj, Akash Kumar | Power Generation by drain water for Green Buildings | Nikhil Agrawal, Vinod Kumar Singh, Naresh Bangari, Anurag Saxena, Bharat Bhushan Khare, Akanksha Lohia, Ambikapathy A & Akash Kumar Bho | 02.01.2021 | 31.03.2021 |
| 4 | 2021100666 | Granted | AMBIKAPATHY, A.; NAIK, M. RAMBABU; ARUNABALA, C.; BODAPATI, JAGADEESH; GOVINDHARAJ, ARUNPRASAD; K, | Secure Detection Method for IoT Information Collection Systems using NOMA Protocol | A. AMBIKAPATHY, M. RAMBABU NAIK, C. ARUNABALA, JAGADEESH BODAPATI, ARUNPRASAD GOVINDHARAJ, LOGAVANI K, T. | 02.02.2021 | 07.04.2021 |

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| | | | LOGAVANI; PONNARASI, T.; HAZARIKA, KALPANA; KALAISELVI, T. and SATHEESHKUMAR, R. | | PONNARASI, KALPANA HAZARIKA, T. KALAISELVI & R. SATHEESHKUMAR | | |
| 5 | 2021100895 | Granted | A., Ambikapathy; G., Arun Prasad; Shrivastava, Pramod Kumar; Pushpendu, Rakshit; Hazarika, Kalpana; Shahid, Mohammad; M., Sivasubramanian; Pandey, Anand Kumar; K. S., Sujatha; Dharmasa; Singh, Brijesh; Bhoi, Akash Kumar and MOHAMMED, ARSHAD | Machine Learning-based Solar TrackingSystem and MethodThereof | Ambikapathy A, Arun Prasad G, Pramod Kumar Shrivastava, Rakshit Pushpendu , Mohammad Shahid, Anand Kumar Pandey, Sujatha K S, Dharmasa, Brijesh Singh, Akash Kumar Bhoi & ARSHAD MOHAMMED | 15.02.2021 | 14.04.2021 |
| 6 | 2021101212 | Granted | A, Ambikapathy; Dinesh, Supriya; Atmakuri, Aparna Rajesh; Laxya; Rai, Amrita; Shahid, Mohammad; Equbal, Danish; A, Annai Theresa; N, Vithyalakshmi; R, Pandian; S, | Smart Public Transport Disinfection andSterilizationsystem. | Ambikapathy A, Supriya Dinesh, Aparna Rajesh, Laxya, Amrita Rai, Mohammad Shahid, Annai Theresa A, Vithyalakshmi N, Pandian R, Lalithakumari S, Mahaboob Shaik & ARSHAD MOHAMMED | 08.03.2021 | 28.04.2021 |

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|---|-------------------|----------------|---|--|--|------------|-------------------|
| | | | Lalithakumari; Shaik, Mahaboob and MOHAMMED, ARSHAD | | | | |
| 7 | 2021101737 | Granted | V., Tulasi Krishna Gannavaram; Singh, Akhilesh; Gannavaram, Venkat Chinmai Sai; Gannavaram, Venkat Praveen; Justice, Ohene-Akoto; Keshipeddi, Sai Bhatt; Chandel, Garima; Sangem, Raviteja; koul, Sumit; A., Sabarivani; Deo, Rajesh Narayan and A., Ambikapathy | IoT and Machine Learning-based Headlight Intensity Changing device for Electrical Vehicles | Tulasi Krishna Gannavaram, Akhilesh Singh, Venkat Chinmai Sai Gannavaram, Venkat Praveen Gannavaram, Ohene-Akoto Justice, Sai Bhatt Keshipeddi, Garima Chandl, Raviteja Sangem, Sumit koul, Sabarivani A, Rajesh Narayan Deo & Ambikapathy A | 06.04.2021 | 09.06.2021 |
| 8 | 20-2021-103-396.7 | Granted | Amit Agarawal, A Ambikapathy , supriya dinesh , Setu garg, Sumit Koul, Ohene akoto justice, Pushpendu rakhsit, ramammurthy swainathan, Akhilesh singh and Kimmi verma | A system for preventing CORONA virus Transmission | Amit Agarawal, A Ambikapathy, supriya dinesh , Setu garg, Sumit Koul, Ohene akoto justice, Pushpendu rakhsit, ramammurthy swainathan, Akhilesh singh and Kimmi verma | 24.06.2021 | 1.07.2021 |
| 9 | 202111014696 | Granted | Dr. Yash Pal Singh Dr Amit Agrawal | Method for physical intelligent VLSI-Chip design and develop | Dr. Yash Pal Singh 2 . Dr. Amit Agrawal 3 . Dr. A Ambikapathy | 31.03.2021 | Puplished |

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|-----------------------------|--------------|-----------|---|--|--|------------|-------------------|
| | | | Dr. A Ambikapathy Mr. Amit Rai Dr. Laxya Mr. Prateek Agarwal Mr. Sandeep Kumar Tripathi Mr. Anuj Kumar Sharma Dr. Sumit Koul Dr. Sumit Sangwan | Technology | 4 . Mr. Amit Rai 5 . Dr. Laxya 6 . Mr. Prateek Agarwal 7 . Mr. Sandeep Kumar Tripathi 8 . Mr. Anuj Kumar Sharma 9 . Dr. Sumit Koul 10 . Dr. Sumit Sangwan | | |
| 10 | 344305-001 | Granted | NAVEEN KUMAR RAJESH KUMAR KAUSHAL S.N.PANDA SIMRANJEET SINGH JYOTI SHARMA RUCHI MITTAL A. AMBIKAPATHY SHILPI SINGHAL | Device for interactive online learning (Design Patent) | 1.. NAVEEN KUMAR 2. RAJESH KUMAR KAUSHAL 3 S.N.PANDA 4. SIMRANJEET SINGH 5. JYOTI SHARMA 7. RUCHI MITTAL 7. A. AMBIKAPATHY 8. SHILPI SINGHAL | 07.06.2021 | 08.07.2022 |
| Dr. Kiran Srivastava | | | | | | | |
| 1 | 202111034313 | Published | DR.ABHINAV SAXENA,DR.AMIT KUMAR DR.NITIN KUMAR PAL DR.SUNIL KUMAR CHAUDHARY DR.PUNEET CHANDRA SRIVASTAVA | OPTIMAL INTERFERENCE MINIMIZATION BETWEEN COMMUNICATION AND TRANSMISSION LINE USING ARTIFICIAL INTELLIGENCE BASED ELECTROMAGNETIC WAVES METHOD | | 30/07/2021 | 10/9/2021 |

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| | | | DR.KIRAN SRIVASTAVA DR.NEERAJ KUMARMR. CHANDAN CHOUBEY MRS. PRIYANKA DATTA DR. BHARAT SINGH)MR. MANOJ KUMAR MR. GYANESH SINGH | | | | |
| 2 | 202011055654 | Published | Amandeep Kaur, Praveen Kumar Mallik, Puneet Chandra Srivastava,Kiran Srivastava | Circular Cut Multi band Microstrip Antenna with Defected Ground for Wireless Application | | 21/12/2020 | 29/01/2021 |

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 in abbreviation | Type (Funded/ Constancy) | Type (Government/non-Government) |
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Ph.D. Supervised

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

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| | | | | University / ongoing |
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Ph.D. Awarded

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