

List of publications

1. A.Yogeshwaran, **Dr.K.Umadevi**," An efficient wideband low noise amplifier (WLNA) using advanced design system based industrial micro strip antenna", **Journal of Microprocessors and Microsystems**, online 2 October 2020,0141-9331/© 2020 Elsevier B.V. All rights reserved. (Impact factor 1.161)
2. S. S. Sathya & **K. Umadevi**" An optimized distributed secure routing protocol using dynamic rate aware classified key for improving network security in wireless sensor network" **Journal of Ambient Intelligence and Humanized Computing**,ISSN 1868-5137, Received: 23 April 2020 / Accepted: 23 July 2020,© Springer-Verlag GmbH Germany, part of Springer Nature 2020,1 August 2020. (Impact factor **4.594**)
3. V. Vijayakumar & **K. Umadevi**,"Protecting user profile based on attributebased encryption using multilevel access security by restricting unauthorization in the cloud environment",**Journal of Ambient Intelligence and Humanized Computing**,ISSN 1868-5137, Received: 23 April 2020 / Accepted: 23 July 2020,© Springer-Verlag GmbH Germany, part of Springer Nature 2020,1 August 2020. (Impact factor **4.594**)
4. A.Yogeshwaran, **Dr.K.Umadevi**," Design of Reconfigurable Monopole Antenna for Cognitive Radio Application", International Journal of Scientific Engineering and Applied Science (IJSEAS) – Volume-6, Issue-6, June 2020 ISSN: 2395-3470, pp.63-69. (Impact factor **4.214**)
5. A.Yogeshwaran, **Dr.K.Umadevi**, S.Priyadharshini," Design Of Ku Band Patch Antenna For Satellite Applications", International Journal of Advanced Research in Electronics and Communication Engineering (IJARECE) Volume 9, Issue 6, June 2020, ISSN: 2278 – 909X, pp.38-41
6. Ms.K.Deepa, Mrs.**Dr.K.Umadevi**, Ms.G.Nithya, Ms.M.P.Nandhini, Ms.B.Gokila," Speed Control Of Switched Reluctance Motor Using Classic Converter", Journal of Information and Computational Science, (**UGC-CARE Group II**), Volume 13 Issue 3 – 2020 ISSN No.: 1548 - 7741 pp.89-93.
7. Mr.N.Sivakumar, Mrs.**Dr.K.Umadevi**, Ms.P.Jeysri, Ms.M.Yamuna, Ms.B.Yuvarani," A novel fuel cell based power generation system for AC grid supply", Journal of Information and Computational Science, (**UGC-CARE Group II**), Volume 13 Issue 3 – 2020 ISSN No.: 1548 - 7741 pp.94-98.
8. Dr. R. Satish Kumar,**Dr.K.Umadevi**, Mrs.T.Gohila, S.Gayathri, S.A.Joshika, N.Sidheswari," IOT Based Smart DC House", An International Multidisciplinary Double-Blind Peer-reviewed

- Research Journal, Volume 01, Special Issue 03, March 2020, ISSN No.: 2582-1962, pp. 01-05.
9. Mr. A.Tamil Selvan, **Dr.K.Umadevi**, Mr.V.Nanthakumar, Mr.R.Manojkumar, Mr.P.Gnanasekaran, Mr.K.Mohankumar," Pollution Management Using IOT", An International Multidisciplinary Double-Blind Peer-reviewed Research Journal, Volume 01, Special Issue 03, March 2020, ISSN No.: 2582-1962, pp. 06-09.
10. Ms.K.Deepa, **Dr.K.Umadevi**, Mr.V.Vasanth, Mr.S.Sarathkumar, Mr.S.Lokesh," Stepper Motor Controller", An International Multidisciplinary Double-Blind Peer-reviewed Research Journal, Volume 01, Special Issue 03, March 2020, ISSN No.: 2582-1962, pp. 10-12.
- 11.**Dr.K.Umadevi**, Dr.R.Satishkumar, Mr.N.Sivakumar, B.Vignesh, J.Manimaran, D.Shyamsundar,," Electric Vehicle Hiring System", **Studies in Indian Place Names (UGC Care Journal)**, Volume 04, Issue 74, March 2020, ISSN No.: 2394-3114, pp. 146-154. (Impact factor 5.87).
- 12.Dr.R.Satishkumar,**Dr.K.Umadevi**,Dr.E.Geetha, .Keerthana,V.Geetha,G.Sasikala,"Hybrid Forward Boost Converter for E- Vehicle", Journal of Information and Computational Science, (**UGC-CARE Group II**), Volume 13, Issue 02, March 2020, ISSN No.: 1548-7741, pp. 82-88.
13. N.Venkateswaran, **Dr.K.Umadevi**, Dr. A.Viswabharathy and Dr. R.Jegadeesan,"A survey on Energy Efficient usage of intrusion Detection system in Mobile and HOC networks", Journal of Emerging Technologies and innovative Research , Volume 06, Issue 03, March 2019, ISSN No.: 2349-5162, pp. 648-651. (Impact factor 5.87).
14. S.Kesavan,T.Krishnan,D. Ranjikummar and **Dr. K. Uma devi**, "Energy Efficient Street lighting using wind", International Journal of advanced Technology in Engineering and Science, Volume 07, Issue 03, March 2019, ISSN No.: 2348-7550, pp. 256-258. (Impact factor 0.569).
15. **Dr. K. Uma devi**, K. Veilammal, V. Gokilavan and S. Keerthana, "Monitor and Control of BLDC Motor parameters by using IOT", International Journal of advanced Technology in Engineering and Science, Volume 07, Issue 03, March 2019, ISSN No.: 2348-7550, pp. 123-127. (Impact factor 0.569).
16. A.Vijay and **Dr. K.Umadevi**, "Explainable AI Controlled Architecture of D2D system for Massive MIMO based 5G Networks, International Journal of Scientific Research and Review, Volume 07, Issue 03, March 2019, ISSN No.: 2279-543X, **UGC Journal No.: 64650** pp. 33-40. (Impact factor 1.536).
17. **Dr. K. Uma devi**, K. Veilammal, V. Gokilavan and S. Keerthana," Hybrid Energy from Artificial Nanotree", International Research Journal of Engineering and Technology, Vol. 6, Issue 1 , January 2019, pp. 939-942. (Impact factor 7.529).

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19. **Dr.K.Uma devi** and Mr. R.Karthikeyan,” Drivers backing system with factual occasion eye recognition”, International Journal of Advance Research in Science and Engineering , Vol. 7,Special Issue 1 , January 2018, pp. 463-471. (Impact factor 6.1).
- 20.N. Prakash, V.Sathasivam, M.Arulkumar and **Dr.K.Umadevi** ,” Auto Vehicle Speed Control In Restricted Area”, International Journal of Advance Research in Science and Engineering , Vol. 7,Special Issue 1 , January 2018, pp. 557-561. (Impact factor 6.1).
21. **Dr.K.Uma devi** and Mr. R.Karthikeyan,” Design and analysis of FPGA based high-resolution Digital Pulse Width Modulators Technique for DC-DC converters”, International Journal of Advance Research and Innovative Ideas in Education, Vol. 3,Issue 6 , 2017, pp. 1526-1533.
22. **Dr.K.Uma devi** ,Mr.C.J.Anup and Shruthi. S,” unwired charging truly wireless world”, International Journal of Engineering Technology, Management and Applied Sciences, Vol. 5,Issue 4 , April 2017, pp. 1-5. Impact factor 1.872).
23. Dr.R.Satish kumar and **Dr.K.Umadevi**,” A Hybrid Compensation Controller for Switched Reluctance Motor Drive”, Asian Journal of Research in Social Sciences and Humanities, Special issue,Vol. 6, Sept 2016, pp. 278-292. (Impact factor 0.676).
24. **Dr.K.Umadevi** and Dr.R.Satish kumar,” Exterior Rotor Permanent Magnet Brushless Dc Motor through Numerical Method of the Electromagnetic for Torque Improvement”, Asian Journal of Research in Social Sciences and Humanities, Special issue, Vol. 6, Sept 2016, pp. 319-332. (Impact factor 0.676).
- 25.**Dr.K.umadevi** and B.Surya.,”FPGA Based Implementation of ECG Signal Analysis using DWT”, International Journal of Advanced research in Biology Engineering Science and Technology,Special Issue 10, Vol 2,March 2016,pp.1668-1673 (Impact factor 5.023).
- 26..Dr.R.Satish kumar and **Dr.K.Umadevi.**,” Novel Technique for Measurements of Dielectric Properties and Microwave Heating of In-Shell Eggs without Explosions in Microwave Oven for Pasteurization”, International journal of Innovative research in Advanced Engineering, Issue 3, Vol. 2, March 2015, pp. 69-77 (Impact factor 1.311).

International Conference presentations

1. Dr.R.Satishkumar,**Dr.K.Umadevi**,Dr.E.Geetha, .Keerthana,V.Geetha,G.Sasikala,"Hybrid Forward Boost Converter for E- Vehicle", Third International Conference on Nexgen Technologies ,Sengunthar Engineering College , Tiruchengode,20th-21st , March 2020, pp. **333 -337**.
2. Ms.K.Deepa, Mrs.**Dr.K.Umadevi**, Ms.G.Nithya, Ms.M.P.Nandhini, Ms.B.Gokila," Speed Control Of Switched Reluctance Motor Using Classic Converter", Third International Conference on Nexgen Technologies ,Sengunthar Engineering College , Tiruchengode,20th-21st , March 2020, pp. 333 - 337.
3. Mr.N.Sivakumar, Mrs.**Dr.K.Umadevi**, Ms.P.Jeysri, Ms.M.Yamuna, Ms.B.Yuvarani," A novel fuel cell based power generation system for AC grid supply", Third International Conference on Nexgen Technologies ,Sengunthar Engineering College , Tiruchengode,20th-21st , March 2020, pp. 328 - 332.
4. A.Vijay and **Dr. K.Umadevi**, "Secured AI guided Architecture for D2D system for Massive MIMO based 5G Networks, 3rd International Conference on Trends in Electronics and informations(ICOEI 2019) ,SCAD college of Engineering and Technology , Tirunelveli,23-25 , April 2019.
- 5.N.Venkateswaran,**Dr.K.Umadevi**, Dr. A.Viswabharathy and Dr. R.Jegadeesan,"A survey on Energy Efficient usage of intrusion Detection system in Mobile and HOC networks", First International Conference on Cutting Edge Technologies in Computing and communications(ICCETCC'19),Jyothishmatyhi Institute of technology & Science, Nustulapur, Karimnagar- 505 481, 3rd and 4th , April 2019.
6. S.Kesavan,T.Krishnan,D. Ranjikumar **and Dr. K. Uma devi**, "Energy Efficient Street lighting using wind", Second International Conference on Nexgen Technologies ,Sengunthar Engineering College , Tiruchengode,08th-09th , March 2019, pp. 1070-1072.
7. **Dr. K. Uma devi**, K. Veilammal, V. Gokilavan and S. Keerthana, "Monitor and Control of BLDC Motor parameters by using IOT", Second International Conference on Nexgen Technologies ,Sengunthar Engineering College , Tiruchengode,08th-09th , March 2019, pp. 669-673.

8. A.Vijay and **Dr. K.Umadevi**, “Explainable AI Controlled Architecture of D2D system for Massive MIMO based 5G Networks”, Second International Conference on Nexgen Technologies ,Sengunthar Engineering College , Tiruchengode,08th-09th , March 2019, pp. 48-55.
9. Infant Felciya ,N.Nebina and **Dr.K.Umadevi**,” Embedded based vehicle theft detection and locking system using GSM and GPS”, International Conference on Nexgen Technologies ,Sengunthar Engineering College , Tiruchengode,05th-06th , January 2018, pp. 703-706.
10. **Dr.K.Uma devi** and Mr. R.Karthikeyan,” Drivers backing system with factual occasion eye recognition”, International Conference on Nexgen Technologies ,Sengunthar Engineering College , Tiruchengode,05th-06th , January 2018, pp. 533-541.
- 11.N. Prakash, V.Sathasivam, M.Arulkumar **and Dr.K.Umadevi** ,” Auto Vehicle Speed Control In Restricted Area”, International Conference on Nexgen Technologies ,Sengunthar Engineering College , Tiruchengode,05th-06th , January 2018, pp. 641-645.
- 12.**Dr.K.Uma devi**,Mr.C.J.Anup and Ms.S.Shruthi.,” unwired charging truly wireless world”, International conference on latest concepts in Science, Technology, Management and Humanities, national institute of Technical Teachers Training Research, Chandigarh, India (MHRD,Govt. of India)on 2nd April 2017.
13. **Dr.K.Uma devi**,”Wind mill with Automatic Braking system using Differential band brake” 4th International Conference on Engineering Technology and science , Muthayammal Engineering Institututions,rasipuram,30 & 31March 2017.
14. **Dr.K.Uma devi**,” Transformerless Grid – connected Photovoltaic System using SPWM”, International conference on Intellectual Convergence on advances in Science and Engineering, Aalim Muhammed Salegh College of Engineering ,Chennai on 3rd&4th March 2017 .
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Department of EEE and CSE, Vivekanandha College of Engineering For Women, Tiruchengode, 22, 23 March 2016.

16. **Dr.K.Uma devi,**” FPGA Based Implementation of ECG Signal Analysis using DWT”, International Conference on Global Innovations in Computing Technology-ICGICT’16, Organized by Department of Computer Science and Engineering, Jay shriram group of Institutions-Tirupur,in Association with Samuel Ginn College of Engineering, Auburn University, USA,4th and 5th March,2016.

17. Dr.R.Satish kumar, **Dr.K.Uma devi and Mr.C.J.Anup,**” Performance Analysis of Permanent Magnet Linear Synchronous Motors using Finite Element Method”, International Conference on Electrical ,Electronics and Optimization techniques”,ICEEOT,Technical Sponsor by IEEE DMI College Students Branch-Chennai,3rd-5th march 2016, Tamil Nadu,India.

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1. **Dr.K.Umadevi,**” Security Issues Challenges and Major Attacks”, National Conference on Convergent Communication Technologies,Telemedicine Networking and Renewable Resources on April 4th,2018 organized by IEEE Aerospace and Electronic systems Society-Madras Chapter &Department of Electronics and Communication Engineering,V.M.K.V. Engineering college,Salem.

2. **Dr.K.Umadevi,**”Wind Energy with Automatic braking system with using Differential Band brake”, National Conference on NEXGEN TECHNOLOGIES at Sengunthar Engineering College ,Tiruchengode ,March 18th,2017.

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5.**Dr.K.Umadevi,**”Wind Energy used for light and Fan”, National Conference on NEXGEN Technologies at Sengunthar Engineering College ,Tiruchengode ,march 19th,2016.

6.**Uma Devi, K.,**' Single phase single phase Transformer less grid connected PV system', National Conference on "Xtreme Engineering and Technological Advancements", at Jayam College of Engineering & Technology, Dharmapuri, March30th and 31th,2015.