



**JEPPIAAR**  
**ENGINEERING COLLEGE**

(A CHRISTIAN MINORITY INSTITUTION)

JEPPIAAR NAGAR, RAJIV GANDHI SALAI, CHENNAI – 600119

**Curricular Details**

*Faculty*

*AY – (2018-2019)*

PRINCIPAL  
JEPPIAAR ENGINEERING COLLEGE  
JEPPIAAR NAGAR,  
RAJIV GANDHI SALAI,  
CHENNAI - 600119

## Faculty Achievement Curricular

<i>Academic Year* -select-</i>	<i>2018-19</i>
<i>Number of Research papers published in Journals*</i>	<b>41</b>
<i>Number of patents granted*</i>	<b>02</b>
<i>Number of papers published in National Conferences*</i>	<b>04</b>
<i>Number of papers published in International Conferences*</i>	<b>39</b>
<i>Number of Books Authored *</i>	<b>01</b>
<i>Number of book chapters authored*</i>	<b>00</b>
<i>Number of new externally funded research projects received *</i>	<b>02</b>
<i>Fund received during this academic year*</i>	<b>Rs.10,36,879</b>

## List of Journal Articles Published 2018-19

1. Julian Menezes, R.; Jeyarin, P.J.; Albert Mayan, J.A. *A scholarly audit on the traits of enciphering, deciphering algorithms bifurcated under symmetric, assymmetric for wired cum wireless environment*. 2019, **Journal of Advanced Research in Dynamical and Control Systems**, 11(1), Special Issue, 1443–1454.

2. Rajeesh Kumar, R.; Mohan Kumar, M. *An enhanced SDN based protocol for secure communication in the internet of things*. 2019, **Journal of Advanced Research in Dynamical and Control Systems**, 11(6), Special Issue, 910–917.

3. Pradeepa, D.; Valarmady, A.; Nithyanandam, K. *E-learning types, opportunities and skills*. 2019, **Journal of Advanced Research in Dynamical and Control Systems**, 11(6), Special Issue, 670–672.

4. Sumathy, G.; Arokia Renjith, J. *Eye point center localization through distance vector fields and improved grid based measure of eye field rotation*. 2019, **Journal of Advanced Research in Dynamical and Control Systems**, 11(3), Special Issue, 1261–1266.
5. Deebalakshmi, R.; Jyothi, V.L. *Smart routing based on network traffic classification techniques and considerations*. 2019, **International Journal of Public Sector Performance Management**, 5(2), 222–236. <https://doi.org/10.1504/IJPSPM.2019.099096>
6. Veeramani, T.; Srinuvasarao, P.; Rama Krishna, B.; Thilagavathy, R. *Impact of social media networks big data analysis for high-level business*. 2019, **International Journal of Recent Technology and Engineering**, 7(5), 87–92.
7. Illavarason, P.; Arokia Renjit, J.; Mohan Kumar, M. *Evaluating the effectiveness of visual techniques methodologies for cerebral palsy children and analyzing the global developmental delay*. 2019, **Lecture Notes in Electrical Engineering**, 521, 99–105. [https://doi.org/10.1007/978-981-13-1906-8\\_11](https://doi.org/10.1007/978-981-13-1906-8_11)
8. John de Britto, C.; Nagarajan, S. *Design and analysis of quasi-z-source resonant converter for hybrid energy resources for rural electrification*. 2018, **International Journal of Engineering and Advanced Technology**, 8(2C2), 132–135.
9. Raman, C.J.; Visumathi, V. *Comparative analysis of delay minimizing and energy conserving algorithms in wireless sensor network*. 2018, **Proceedings of ICOEI**, 808–812. <https://doi.org/10.1109/ICOEI.2018.8553705>
10. Selvam, S.; Arokia Renjit, J. *Secure data sharing of personal health records in cloud using fine-grained and enhanced attribute-based encryption*. 2018, **Proceedings of ICCTCT**. <https://doi.org/10.1109/ICCTCT.2018.8551006>
11. Agnes Shifani, S.A.; Nanammal, V.; Bhavani, R.; Nishidha, A.A. *A review on strain measurement in bone mechanics using various techniques*. 2018, **Proceedings of ICCIC**. <https://doi.org/10.1109/ICCIC.2017.8524236>
12. Kothandan, A.; Masimalai, S. *Cleaner emissions from a DI-diesel engine fueled with mahua oil and low carbon ethanol-hydrogen in dual fuel mode*. 2018, **Environmental Science and Pollution Research**, 25(32), 32684–32693. <https://doi.org/10.1007/s11356-018-3166-9>
13. Saravanan, S.; Satish, R. *An exploration into the determinants of retail investors' investment behaviour about initial public offers in Indian scenario*. 2018, **Academy of Strategic Management Journal**, 17(5).
14. Michael Mahesh, K.; Arokia Renjit, J. *Evolutionary intelligence for brain tumor recognition from MRI images: A critical study and review*. 2018, **Evolutionary Intelligence**, 11, 19–30. <https://doi.org/10.1007/s12065-018-0156-2>

15. Saravanan, S.; Satish, R. *Impact of risk and return considerations in perception of retail investors about an IPO*. 2018, **Indian Journal of Public Health Research and Development**, 9(8), 1047–1056. <https://doi.org/10.5958/0976-5506.2018.00869.0>
16. Duraimurugan, S.; Jesu, P. *Analysis and study of multimedia streaming and congestion evading algorithms in heterogeneous network environment*. 2018, **Proceedings of ICCONS**, 1248–1252. <https://doi.org/10.1109/ICCONS.2018.8663163>
17. Megavarna Ezhilarasu, P.M.; Inbavalli, M.; Murali, K.; Thamilmaran, K. *Strange non-chaotic attractors in a state controlled-cellular neural network-based quasiperiodically forced MLC circuit*. 2018, **Pramana – Journal of Physics**, 91(1). <https://doi.org/10.1007/s12043-018-1575-4>
18. Suresh, S.; Nisha, P.; Saravanan, P.; Jayamoorthy, K.; Karthikeyan, S. *Investigation of the thermal and dielectric behavior of epoxy nano-hybrids using silane modified nano-ZnO*. 2018, **Silicon**, 10(4), 1291–1303. <https://doi.org/10.1007/s12633-017-9604-3>
19. Philip, C.; Rochelle, S.; Tharani, J.; Kumar, H.A. *Mechanical characterization of glass-banana fiber with aluminium powder hybrid composite*. 2018, **International Journal of Mechanical and Production Engineering Research and Development**, 8(3), 217–226. <https://doi.org/10.24247/ijmpredjun201825>
20. Dillikannan, D.; Sathiyagnanam, A.P.; Rana, D.; Subramani, S.; Babu, R.K.; Sethuramasamyraja, B. *Effective utilization of waste plastic oil in a direct injection diesel engine using high carbon alcohols as oxygenated additives for cleaner emissions*. 2018, **Energy Conversion and Management**, 166, 81–97. <https://doi.org/10.1016/j.enconman.2018.04.006>
21. Kaliyaperumal, G.; Sathiyagnanam, A.P.; Babu, R.K.; Subramani, S.; Rana, D.; Sethuramasamyraja, B. *Prediction of emissions and performance of a diesel engine fueled with n-octanol/diesel blends using response surface methodology*. 2018, **Journal of Cleaner Production**, 184, 423–439. <https://doi.org/10.1016/j.jclepro.2018.02.204>
22. Dillikannan, D.; Sathiyagnanam, A.P.; Babu, R.K.; Ganesh, K.C. *Cleaner emissions from a DI diesel engine fueled with waste plastic oil derived from municipal solid waste under the influence of n-pentanol addition, cold EGR, and injection timing*. 2018, **Environmental Science and Pollution Research**, 25(14), 13611–13625. <https://doi.org/10.1007/s11356-018-1558-5>
23. Gayathri, S.; Sabitha, R. *Resource allocation in downlink of LTE using bandwidth prediction through statistical information*. 2018, **Indonesian Journal of Electrical Engineering and Computer Science**, 10(2), 680–686. <https://doi.org/10.11591/ijeecs.v10.i2.pp680-686>
24. Deebalakshmi, R.; Jyothi, V.L. *Intelligent packet delivery in router using structure optimized neural network*. 2018, **Indonesian Journal of Electrical Engineering and Computer Science**, 10(2), 545–553. <https://doi.org/10.11591/ijeecs.v10.i2.pp545-553>

25. Thilagavathy, S.R.; Paulraj, P.; Ramasamy, P.; Bhagavannarayana, G.; Ambujam, K. *Investigations on the growth, structural, optical, mechanical, dielectric and SHG behaviour of GPMG crystals*. 2018, **Materials Research Innovations**, 22(3), 115–120. <https://doi.org/10.1080/14328917.2016.1265260>
26. Muthulakshmi, A.; Baskaran, R. *The effect of temperature and thermodynamics studies on the removal of heavy metal by using adsorbent*. 2018, **International Journal of Mechanical and Production Engineering Research and Development**, 9(2), 827–840. <https://doi.org/10.24247/ijmperdapr201980>
27. Antony, A.; Joy, N. *Behaviour of composite slab beam without shear connector*. 2018, **International Journal of Civil Engineering and Technology**, 9(4), 1039–1048.
28. Dillikannan, D.; Sathiyagnanam, A.P.; Rana, D.; Babu, R.K.; Subramani, S. *Combined influence of injection timing and EGR on combustion, performance and emissions of DI diesel engine fueled with neat waste plastic oil*. 2018, **Energy Conversion and Management**, 161, 294–305. <https://doi.org/10.1016/j.enconman.2018.01.045>
29. Inbavalli, M.; Srinivasan, K.; Gladwin Pradeep, R.; Venkatesan, A.; Murali, K. *Dynamics of periodically pulsed driven Chua's circuit*. 2018, **Journal of Computational and Theoretical Nanoscience**, 15(3), 854–858. <https://doi.org/10.1166/jctn.2018.7165>
30. Angel Ezhilarasi, A.; Judith Vijaya, J.J.; Kaviyarasu, K.; John Kennedy, L.J.; Jothiramalingam, R.J.; Al-Lohedan, H.A. *Green synthesis of NiO nanoparticles using Aegle marmelos leaf extract for the evaluation of in-vitro cytotoxicity, antibacterial and photocatalytic properties*. 2018, **Journal of Photochemistry and Photobiology B: Biology**, 180, 39–50. <https://doi.org/10.1016/j.jphotobiol.2018.01.023>
31. Hemavathi, S.; Jayasakthi Velmurugan, K.J. *Trust awaken routing for improving the reliable communication in WSN*. 2018, **Indian Journal of Public Health Research and Development**, 9(2), 384–386. <https://doi.org/10.5958/0976-5506.2018.00154.7>
32. Nagasankar, P.; Tamilselvi, P.; Satheesh Kumar, S.; Someshwar, D.; Sanjay Murugan, G.; Theyagarajan, K. *Fabrication of hydro-C crane for automobiles*. 2018, **International Journal of Engineering and Technology (UAE)**, 7(3.34), Special Issue, 379–381.
33. Madhurikkha, S.; Sabitha, R. *Hierarchical honey bee model to avoid sleep deprivation attack in MANET*. 2018, **International Journal of Engineering and Technology (UAE)**, 7(3), 358–363. <https://doi.org/10.14419/ijet.v7i3.6.15133>
34. Balaji, C.; Sahai, S.; Jha, S.; Sakthi, S.; Mukherjee, B.; Dominic Savio, A.; Chakraborti, A. *Study and analysis of performance of a commercial grid-connected rooftop solar PV plant*. 2018, **International Journal of Engineering and Technology (UAE)**, 7(2.33), Special Issue, 1329–1332.
35. Raman, C.J.; Visumathi, V. *Priority based distributed scheduling for congestion and collision avoidance in WSN*. 2018, **International Journal of Engineering and Technology (UAE)**, 7(3.34), Special Issue, 91–96.

36. Duraimurugan, S.; Jesu, P. *Priority based proactive buffer management for aggregated streaming in heterogeneous wireless networks*. 2018, **International Journal of Engineering and Technology (UAE)**, 7(3.34), Special Issue, 97–102.
37. Selvam, S.; Arokia Renjit, J. *Implementation of round key AES with honey technique for securing the public cloud data storage*. 2018, **International Journal of Engineering and Technology (UAE)**, 7(3.1), Special Issue, 128–132.
38. Catherine, S.; Magesh, R. *Cherry picking: Shopper behaviour to choose a store*. 2018, **Journal of Advanced Research in Dynamical and Control Systems**, 10(12), Special Issue, 867–873.
39. Bhuvana, R.G.; Srinivasan, S.A.; Thanikaivel Murugan, D. *CFD analysis on swirl angle effect in gas turbine combustion chamber*. 2018, **IOP Conference Series: Materials Science and Engineering**, 402(1), 012206. <https://doi.org/10.1088/1757-899X/402/1/012206>
40. Cloudin, C.; Mohan Kumar, M. *Adaptive mobility-based intelligent decision-making system for driver behaviour prediction with motion nano sensor in VANET*. 2018, **International Journal of Heavy Vehicle Systems**, 25, 391–405. <https://doi.org/10.1504/IJHVS.2018.094830>
41. Vishaal, R.; Raghavan, P.; Rajesh, R.; Michael, S.; Mohan, M.R. *Design of dual purpose cleaning robot*. 2018, **Procedia Computer Science**, 133, 518–525. <https://doi.org/10.1016/j.procs.2018.07.065>
42. Gowri Sankar, P.A. *Electronics properties of ZnSe nanotube with substitutional impurity atoms – A first-principles investigation*. 2018, **Materials Today: Proceedings**, 5(6), 14405–14415. <https://doi.org/10.1016/j.matpr.2018.03.026>
43. Illavarason, P.; Arokia Renjit, J.; Mohan Kumar, M. *Clinical evaluation of functional vision assessment by utilizing the visual evoked potential device for cerebral palsy rehabilitation*. 2018, **Procedia Computer Science**, 132, 128–140. <https://doi.org/10.1016/j.procs.2018.05.174>
44. Jagadeesan, G.; Chandramalar, I.M.; Karunakaran, J.; Gopinath, S.; Mohanakrishnan, A.K. *Crystal structure of dimethyl 1-oxo-2,4-diphenyl-1,2-dihydronaphthalene-2,3-dicarboxylate*. 2018, **Acta Crystallographica Section E: Crystallographic Communications**, 74, 349–351. <https://doi.org/10.1107/S2056989018002360>