

## Publications

### Journals

1. M Palaninatha Raja and A M Abirami, Measurement of Ethics among Engineering Students, The Journal of Engineering Education Transformations, Vol. 30 No. 3, 2017, pp.299-303
2. M.Palaninatharaja, Quality Award Dimensions: A Strategic Instrument for Measuring Health Service Quality, International Journal on Healthcare Quality Assurance, Vol.20, No.5, 2007, pp.363-378
3. M.Palaninatharaja, Cost Benefit Analysis on ehealthcare services, Ukrainian Journal of Telemedicine and Medical Telematics, Vol.4, No.1, 2006, pp.53-64.
4. M.Palaninatharaja, Measuring Service Quality in Technical Education and Healthcare Services , International Journal for Service operations and Management , Vol.2, No.3, 2005,pp.222-236
5. M Palaninatha Raja and A M Abirami, Performance Excellence Model for Engineering Education - An Enabler for Sustaining Quality, The Journal of Engineering Education Transformations, Vol.No.28,No.2,2015,pp.122-130
6. M.Palaninatharaja, Ranking Of Sustainable Methods For Recycling Rubber Waste, JOURNAL The Journal of Value Engineering - INVAVE, Vol24, No.2, page 12-19
7. M.Palaninatharaja, Effective Industry Institute Interaction through Special Interest Groups, Asian Journal of Information Technology , Vol.7 No.6
8. K. Pravinkumar, S.Balaji, T.ManiChandran, M.Anandakumar, G. Kumaraguruparan, "Oxygen reduction reaction of Manganese oxide/Graphene Oxide Nanocomposite" Indian Journal of Chemistry .20116 (55) 177-181.
9. G. Kumaragurubaran, M. Sathish, N. Sankara Subramanian and T. Sornakumar, Design and Fabrication of Micro Channels for MEMS Applications, Synthesis and Reactivity in Inorganic, Metal-organic and Nanometal Chemistry, 36, 2 (2006) 185-191.
10. JM Nilakantan, SG Ponnambalam, N Jawahar, G Kanagaraj, "Bio-inspired search algorithms to solve robotic assembly line balancing problems" Neural Computing and Applications 26 (6), 1379-1393
11. SS Kumar, G Kanagaraj, "Evaluation of mechanical properties and characterization of silicon carbide-reinforced polyamide 6 polymer composites and their engineering applications",International Journal of Polymer Analysis and Characterization, 1-9
12. SS Kumar, G Kanagaraj, "Investigation on Mechanical and TribologicalBehaviors of PA6 and Graphite-Reinforced PA6 Polymer Composites" Arabian Journal for Science and Engineering, 1-11
13. BE Teoh, SG Ponnambalam, G Kanagaraj, "Differential evolution algorithm with local search for capacitated vehicle routing problem" International Journal of Bio-Inspired Computation 7 (5), 321-342

14. WCE Lim, G Kanagaraj, SG Ponnambalam, (2014), PCB Drill Path Optimization by Combinatorial Cuckoo Search Algorithm, Hindawi Publishing Corporation, Scientific World Journal Volume 2014, Article ID 264518, 11 pages <http://dx.doi.org/10.1155/2014/264518>
15. WCE Lim, G Kanagaraj, SG Ponnambalam, (2014) "A hybrid cuckoo search-genetic algorithm for hole-making sequence optimization" *Journal of Intelligent Manufacturing*, 1-13.
16. G Kanagaraj, SG Ponnambalam, N Jawahar Reliability-based total cost of ownership approach for supplier selection using cuckoo-inspired hybrid algorithm *The International Journal of Advanced Manufacturing Technology*, 1-16
17. G Kanagaraj, SG Ponnambalam, N Jawahar A hybrid cuckoo search and genetic algorithm for reliability-redundancy allocation problems *Computers & Industrial Engineering* 66 (4), 1115-1124
18. G Kanagaraj, SG Ponnambalam, N Jawahar, JM Nilakantan "An effective hybrid cuckoo search and genetic algorithm for constrained engineering design optimization" *Engineering Optimization*, 1-21
19. Vincent, Lui Wen Han, S. G. Ponnambalam, and G. Kanagaraj. "Differential evolution variants to schedule flexible assembly lines." *Journal of Intelligent Manufacturing*: 1-15.
20. GV Chakaravarthy, S Marimuthu, SG Ponnambalam, G Kanagaraj "Improved sheep flock heredity algorithm and artificial bee colony algorithm for scheduling m-machine flow shops lot streaming with equal size sub-lot problems" *International Journal of Production Research*, 1-19
21. G.Kanagaraj, N.Jawahar, Product Design based on total cost of ownership approach, *Int. Journal of Elixir Mech. Engg.* 40 (Nov 2011), 5337-5350
22. G.Kanagaraj, N.Jawahar, Simultaneous allocation of reliability redundancy using minimum total cost of ownership approach, *Journal of Computational and Applied Research in Mechanical Engineering* Vol. 1, No. 1, Sept. 2011 ISSN: 2228- 7922 <http://icarme.srttu.edu>, 1-16
23. G.Kanagaraj, N.Jawahar, Optimal redundancy allocation for a reliability based total cost of ownership model using genetic algorithm, *International Journal of Reliability and Safety (IJRS)*, Vol.5, No.2, 2011, 158-181
24. G.Kanagaraj, N.Jawahar, A Simulated Annealing Algorithm for Optimal Supplier Selection Using Reliability Based Total Cost Of Ownership Model, *Int. Journal of Procurement Management*, Vol.2, No.3, 2009, 244-266
25. S. Veluchamy and L.R. Karlmarx "System for multimodal biometric recognition based on finger knuckle and finger vein using feature-level fusion and k-support vector machine classifier" , *IET Biometrics*, Volume 6, Issue 3, p. 232 -242, DOI: 10.1049/iet-bmt.2016.0112, p. 232 -242 (11)
26. R. Saravana Ram and L. R. Karl Marx, "Implementation of Energy Conserved VLSI System with Transducer System in Low Power Technology", *Asian Journal of Research in Social Sciences and Humanities* Vol. 6, No. 8, August 2016, pp. 465-481. ISSN 2249-7315

27. R. Saravana Ram and L. R. Karl Marx, "Design and Implementation of Run Time Digital System Using Field Programmable Gate Array–Improved Dynamic Partial Reconfiguration for Efficient Power Consumption" ,Journal of Computational and Theoretical Nanoscience Vol. 13, 1–7, 2016
28. Mr. S.Veluchamy, Dr.L.R.Karlmarx, Miss. T.Renitta "Person authentication using hand based multi modal bio metric system" , International Journal of Applied Engineering Research ISSN 0973-4562 Volume 10, Number 19 (2015)
29. Anupama Jose, V.Arun, L.R.Karlmarx, "Ku Band Circularly Polarized Horn Antenna for Satellite Communications", International Journal of Applied Engineering Research ISSN 0973-4562 Volume 10, Number 19 (2015)
30. M.KishoreVijayakumar, L.R.Karl Marx, L.Swathi, "Performance Improvement in Vibration control of Piezoactuated Cantilever Beams using Successive over relaxation method", International Journal of Applied Engineering Research (IJAER), pp.19117-19120, Volume 10, Number 20 (2015) Special Issues
31. Mr. S.Veluchamy, Dr.L.R.Karlmarx, Mr.V.Arun, "A Survey on Challenges and Design Constraints in Multimodal Biometric System," International Journal of Applied Engineering Research ISSN 0973-4562 Volume 9, Number 24 (2014) pp. 26617-26633
32. V.Arun, C.Karthikadevi, L.R.Karlmarx, "Design of a Novel Balun Fractal Antenna for Multiband Application", International Journal of Applied Engineering Research ISSN 0973-4562 Volume 10, Number 19 (2015)
33. M.KishoreVijayakumar, L.Swathi, and L.R. KarlMarx "Comparison of Adaptive Algorithms for Vibration control of Piezoactuated Cantilever Beams," International Journal of Applied Engineering Research (IJAER), Volume 10, Number 1 (2015), pp. 372-375, Print ISSN 0973-4562 Online ISSN 1087--1090
34. M.KishoreVijayakumar, L.Swathi, and L.R. KarlMarx "Gauss-Seidel Method for Vibration Control in Piezoactuated Cantilever Beams," International Journal of Applied Engineering Research (IJAER), Volume 10, Number 2 (2015) Special Issues, pp. 1559-1562, Print ISSN 0973-4562 Online ISSN 1087--1090
35. R. Saravana Ram and L. R. Karl Marx, "Design and Implementation of Reconfigurable FPGA Using Transducer" International Journal of Applied Engineering Research (IJAER), Volume 9, Number 22 (2014), pp. 13763-13777 Print ISSN 0973-4562, Online ISSN 1087--1090
36. K.Anna Raja, L.R.Karlmarx, "Performance improvement of Data gathering protocol for Green house communication", Australian Journal of Basic and Applied Sciences, 8(18) December 2014, Pages: 414-420, ISSN:1991-8178
37. L.R.KarlMarx, Discrete Time Sliding Mode Control Using Fast Output, Journal Sensors & Transducers Journal, Vol. 102, Issue 3, March 2009, pp. 71-83
38. L.R.KarlMarx, Embedded output feedback controllers for piezoelectric actuated structures, Journal World Journal of Modelling and Simulation, Vol. 5 (2009) No 2 pp 113-119
39. L.R.KarlMarx, M. Umopathy, R. Maheswari, D. Ezhilarasi, Design and Implementation of Output Feedback Control, Journal Sensors & Transducers Journal, Vol. 93, Issue 6, June 2008, pp. 29-36

40. R. Saravana Ram, L.R.Karlmarx,"Design and Implementation of Run Time Digital System Using Field Programmable Gate Array–Improved Dynamic Partial Reconfiguration for Efficient Power Consumption", Journal of Computational and Theoretical Nanoscience Vol. 13, 1-7, 2016
41. A.Ponbharathi,V.Arun,L.R.Karlmarx ,"A Compact Frequency Tunable Micro strip Patch Antenna using Switching Mechanism for Wireless Applications", International Journal of Applied Engineering Research ISSN 0973-4562 Volume 10, Number 19 (2015)
42. Sam Rakesh P S, Aadhishankaren P, Siva Priya S **“Increasing the Thrust Developed by Modifying the Design of Propeller”**, International Journal of Innovative Research in Science,Engineering and Technology, Vol. 5, Issue 12, December 2016.

## Conferences

1. M Palaninatha Raja and A M Abirmai, Measurement of Ethics among Engineering Students, 4th International Conference on Transformations in Engineering Education,6-8, January,2017
2. M.Palaninatha raja and Pl.K.Palaniappan, Practices on One credit courses- A case study through SAP LAP, 3rd World Summit on Accreditation, Gurgaon, 18-20, March 2016
3. M.PalaniNathaRaja, Outcome Based Accreditation: Issues and Concerns in Indian Context,2nd World summit on Accreditation, NewDelhi,8-10,March 2014
4. S. Muralidharan, Dr. M.Palaninatha Raja, Dr.S. Balaji, T. Prakash," Modelling and Simulation of Electrochemical Machining",Micro and Nano Composites - Principles,manufacturing and Applications [NCMNC - 14], 20-03-2014 to 21-03-2014
5. M.Palaninatharaja, Six Sigma in Healthcare, ICPQM, 2006
6. M.Palaninatharaja, Strategies in assessing Telemedicine Quality, National Conference on Medical informatics and Telemedicine,IITKharagpur, 28 Feb. - 2 March,2005.
7. M.Palaninatharaja, Measuring Service Quality A DEA Analysis, National Conference on Product Development , 2-3,May, 2005
8. M.Palaninatharaja, Measuring Service Quality in Engineering Education, National Symposium in Engineering Education, IISc Bangalore, 4-5, March, 2005.
9. M.Palaninatharaja, Survey of service quality factors on healthcare services, International Conference on Service Systems and service Management(ICSSSM'04), Beijing, China , 19-21, 2004
10. M.Palaninatharaja, Estimation of some accreditation parameters using value analysis approach, International Conference on CAD, CAM, Robotics and Autonomous Factories, IIT Delhi, , 11 -13 August, 2003
11. M.Palaninatharaja, Comparing Service Quality An exploratory study on Technical Education and Healthcare services, International Conference on Service Systems and service Management(ICSSSM'04), Beijing, China, 19-21,

12. M.Palaninatharaja, Mathematical Modelling for evaluation of errors-Convex hull approach, International Conference on Mathematical Modeling, IIT Roorkee, 29-31, January, 2001
13. M.Palaninatharaja, Process Capability Plan, International Symposium on Management of Quality, 2-3, January 2000
14. M.Palaninatharaja, Non-Destructive assessment of Integrity of Composites, 44th Congress of Indian Society of Theoretical and Applied Mechanics, , 22-25, December, 1999
15. M.Palaninatharaja, An effort towards Assessment of e-healthcare service quality, Med-e-tel, Luxembourg, 6-8, April,2005
16. M.Palaninatharaja, III-A Gateway to Co-operative knowledge creation , International Conference on Integrating world Markets, MNIT, Allahabad, 5-6,January 2002,
17. M.Palaninatharaja, Analytic Hierarchic Process A Decision tools for improving the quality of technical education accreditation criteria, National Conference on Challenges in achieving global quality, 24-25 ,
18. M.Palaninatharaja, Instructional Strategies in engineering education , ISTE National Convention, December 1998, 1999
19. M.Palaninatharaja, Defects Minimisation through Data Envelopment Analysis, International Conference on Data Envelopment Analysis, 25-27, August 2011
20. M.Palaninatharaja and AM. Abirami,Performance Excellence Model for Engineering Education - An Enabler for Sustaining Quality,
21. M.Palaninatharaja, N.Jawahar, S.P.Nachiappan, S.P.Nachiappan, Process Capability analysis with reaction plan for continual quality improvement, Int. Symposium on Management of Quality, PRAGATI 2000, 2-3 Jan. 2000, Amrita Institute of Mgt, Coimbatore, India , 2-3, 2000
22. B.Rajesh Kumar, G.Kumaraguruparan, T.ManiChandran and S.Balaji, "Anodic Titanium Dioxide for decorative coating in Industrial applications" - National Conference on Advanced Materials For Energy and Environmental Applications, Bharathiar University, Coimbatore, India. (2015) 105. 18.03.2015-20.03.2015
23. L.R.KARL MARX, I.GOGUL, A.MAHADEVAN,S.SASIKUMAR," Musictronics for audio to MIDI conversion", Proceedings of IRF International Conference, Chennai, India, 20th April. 2014, ISBN: 978-93-84209-07-0
24. L.R.KarlMarx, A Novel Fault Tolerant Control Scheme for Water Distribution Systems, IEEE International Conference on Energy efficient Technologies for Sustainability, Volume I, Page 1-5, 10-12 April 2013
25. L.R.KarlMarx, Vibration control of piezoactuated cantilever beams using adaptive filtering, IEEE sponsored International Conference on Information , Communication and Embedded systems 2013, pp 1179 1182
26. L.R.KarlMarx, Discrete time Sliding mode control with Non Linear Sliding Surface for Piezo Actuated Structures , International Conference on Smart Materials Structures and Systems, JAN 4-7, 2012, ISSS-2012/SX-XX

27. L.R.KarlMarx, M.Umapathy, D. Ezhilarasi, DESIGN AND IMPLEMENTATION OF DISCRETE TIME SLIDING MODE MODEL FOLLOWING CONTROL , Fourth ISSS National Conference on Microsystems, Smart Materials, Structures, ISSS-2010, NIT, Nagpur, 32,pp1-4,2010
28. L.R.KarlMarx, Design and Implementation of Discrete Time Sliding Mode Model Following Control with Nonlinear Sliding Surface, 34th National System Conference(NSC-2010) 10th-12th Dec 2010, NITK-Surathkal-Mangalore., 1,1-6,2010(Awarded as best technical paper)
29. L.R.KarlMarx, Design and implementation of discrete time sliding mode control with Nonlinear sliding surface for Piezo-Actuated structures, International Conference on Vibration Engineering and Technology of Machinery (VETOMAC-VI), December 13-15, 2010, Indian Institute of Technology Delhi, India , VETOMAC-VI,IITD, 509-516, Dec.2010,
30. L.R.KarlMarx, Design of Periodic Output Feedback Control Using Reaching Law, International Conference on Smart Materials Structures and Systems July 24-26, 2008, Bangalore, India , ISSS-2008/SX-XX
31. L.R.KarlMarx, Design And Developement Of Embedded System For Automatic Material Inspection, National Conference On Software Agents And Embedded System , 2002
32. S.Juliusfusic, Rajasekaran.S, Sivaraj.K , "Implementation of Matrix converter to improve efficiency in Wind energy conversion system" published in ICREU 2014
33. K.Sivaraj, Rajasekaran.S, Juliusfusic.S "Integrated renewable energy system with hydrogen energy storage" published in ICLTEEE
34. "Multiple model filter based position tracking in CNC machines" 4th international conference on signal processing, communications and networking (ICSCN-17), Anna University, MIT Campus, chennai, March 16-18, 2017

## Books

1. 2. Measuring Quality in Healthcare services -A Measurment tool for improving Quality, 2012, Lambert Academic Publishing, Germany, ISBN : 978-3-8454-3248-9
2. 1. Service Quality – A Measurement Tool for Improving Quality in Engineering Education, 2011 Lambert Academic Publishing, Germany, ISBN: 978-3-8443-8804-6
3. Product Design - Reliability Based Total Cost of Ownership Approach