

Research Profile

Name : Dr.P.RANJITH KUMAR
Designation : Associate Professor
Department : Electronics and Communication Engineering
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Education:

Name of the Degree	Specialization	Year of Passing	Name of the College/ University	Name of the University
B.E	Electronics and Communication Engineering	2002	R.V.S College of Engineering & Technology, Dindigul.	Madurai Kamaraj University, Madurai.
M.E	Embedded System Technologies	2006	Arulmigu Kalasalingam College of Engineering, Krishnankoil.	Anna University, Chennai.
Ph.D	Information and Communication Engineering	2013	Anna University, Chennai.	Anna University, Chennai.

Publications:

Journals (along with impact factor if any):

INTERNATIONAL JOURNALS

1. K.Santhakumar and **P.Ranjith kumar** “Compression Analysis of Approximations for High Quality Data” Advances in Natural and Applied Sciences , Vol.11 No.6, pp. 742-755,2017.
2. **P.Ranjith kumar** , K.Santhakumar and S.Palani “An intelligent approach for optimizing Energy consumption and Schedule length of Embedded multiprocessors” Journal of Intelligent & Fuzzy Systems, **IOS Press** , Vol. 31, No. 1, pp. 579-587,2016. (**Impact factor: 1.812**) .
3. M.Priya and **P.Ranjithkumar** “A Novel Intelligent Approach for Predicting Atherosclerotic Individuals from Big Data for Healthcare” International Journal of

Production Research, Special issues on Operation Research in Healthcare, **Taylor and Francis**, Vol.53, No.24, pp.7517-7532, 2015. (**Impact factor: 1.48**)

4. P.Krishna Leela and **P.Ranjith kumar** “ Compressed Sensing of Fetal ECG Signals for Wireless Telemonitoring and Efficient Recovery of Multichannel Block Sparse Signal” International Journal of Applied Engineering Research ,Vol. 10, No. 20, pp.15444-15449, 2015.
5. S.S.Suganya and **P.Ranjith Kumar** “Implementation of Stochastic Task Scheduling on Heterogeneous Computing Systems” International Journal of Applied Engineering Research, Vol. 10, No. 20, pp.15450-15455, 2015.
6. **P.Ranjithkumar** , P.Babu and S.Palani “Particle Swarm Optimization based Sequential and Parallel Tasks Scheduling Model for Heterogeneous Multiprocessor Systems” Fundamenta Informaticae, **IOS press**, Vol.139, No.1,pp. 1-23, 2015. (**Impact factor- 0.717**)
7. **P.Ranjithkumar** and M.Priya “Classification of Atherosclerosis individual using multi support vector machine” Technology and Healthcare, **IOS press**, Vol.22, No.4, pp-583–595, 2014. (**Impact factor- 0.638**)
8. **P.Ranjithkumar** and S.Palani, “Energy Consumption and Schedule Length minimization of Multiprocessor Systems using Genetic Algorithm” International Journal of Business Information Systems, **Inderscience Publications**, Vol.14, No. 1, pp. 21-40, 2013.
9. **P.Ranjithkumar** and S.Palani, “An Efficient Energy and Schedule Length Model for Multiprocessor Computers” International Journal of Computer Applications in Technology, **Inderscience Publications**, Vol.44, No. 2, pp. 217-225, 2012.
10. **P.Ranjithkumar** and S.Palani, “An Optimal Energy and Power Model for Dynamic Voltage Scaled Multiprocessor Systems” International Journal of Business Information Systems, **Inderscience Publications**, Vol.11, No.4, pp. 461-477, 2012.
11. S.Paraneetharan and **P.Ranjithkumar**, “Architectural Leakage Power Minimization of Scratchpad Memories” International Journal of Electronics and Computer science Engineering, Vol.1, No.2, pp. 544–549, 2012.
12. T.Senthil and **P.Ranjithkumar**, “Schedulability analysis for Real time systems using QPA Algorithm” International Journal of Electronics and Telecommunication Engineering, Vol.3, No.1, pp. 36-40,2010.
13. **P.Ranjithkumar** and S.Palani, “A Comparison of Nonlinear Programming Approach for Real time Dynamic Voltage Scaling” International Journal of Computational Intelligence and Research, Vol.5, No.3, pp. 285–296,2009.

INTERNATIONAL CONFERENCES

1. Danial Moses Prabakar and **P.Ranjithkumar** “Power Quality Improvement in Grid Integrated Solar PV system” International Conference on Recent Trends in Multi-Disciplinary Research (ICRTMDR- 18), 2018.
2. A.Karthika, S.Lakshmi and **P.Ranjithkumar** “ Human Robot Interaction using IOT Technology” International Conference on REECE -17 ,March, 2017.
3. R.Abinaya , G.Manj ,C.Muthumari and **P.Ranjithkumar** “ Cloud Robots for Disaster Management” International Conference on REECE-17 , March, 2017.
4. R.Sridhar and **P.Ranjithkumar** “An intelligent channel optimization method for multi-channel wireless mesh networks with MIMO links” International Conference on Recent Trends in Electrical , Electronics and Communication Engineering (REECE-17) , March, 2017.
5. R.Lakshmiprya and P.Ranjithkumar “ Bee Colony Based Sequential and Parallel task Scheduling in Cloud Environment” IEEE International conference on ICCTIDE -2016.
6. M.Priyaand **P.Ranjithkumar** “Intelligent Approaches for Prognosticating Atherosclerotic and Non-Atherosclerotic Individuals” IEEE International conference on ICCSP, pp. 691-695, 2014. (available in **IEEE Explore**)
7. W.Sofia Lawrence and **P.Ranjithkumar**, “Improving performance of thermally constrained multicore processor using DTM techniques” IEEE International conference on ICICES, pp.1035-1042, 2013. (available in **IEEE Explore**)
8. **P.Ranjithkumar** and S.Palani, “A Dynamic Voltage Scaling with Single Power Supply and Varying Speed Factor for Multiprocessor System using Genetic Algorithm” IEEE International conference on PRIME, pp.342-346, 2012. (available in **IEEE Explore**)
9. **P.Ranjithkumar** and S.Palani, “An Evolutionary Algorithm based Performance Analysis of Multiprocessor Computers through Energy and Schedule Length Model” International conference on PDCTA, Vol.203, No.1, pp. 91-101, 2011. (available in **Springerlink Lecture Notes**)
10. B.Karthikeyan, R.Sankarganesh and **P.Ranjithkumar**, “Improved MPPT Control for PV System under Rapidly Changing Environment Condition”, In Proc. of International Conference on Recent Advances in Technology, Engineering, Management & Science, pp. 26-32, 2011.
11. M.Senbagapriya and **P.Ranjithkumar**, “Satisfiability based Test Generation for struck at fault coverage in RTL Circuits using VHDL” IEEE International conference on ICCNT, pp.1-6, 2010. (available in **IEEE Explore**)

Funded Projects (if any)**Ongoing: NIL****Completed: 1**

Sl. No	Name of the Major Projects	Sponsoring Agency	Amount (Rs)	Investigators	Date/Duration	Status
1.	High efficiency energy transmission System for mobile robot based on VLSI	Texas Instruments , Bangalore ID:125817	100\$ Worth Components	<u>Mentor:</u> Dr.P.Ranjith Kumar <u>Team Members:</u> 1. K.Anupriya 2.S.Lalitha 3.R.Sobiya 4.R.Keerthana 5.A.Raji	01.09.2017-30.04.2018	Completed

Awards/ Recognitions:**Journals Reviewer**

- IEEE Access
- Journal of Information Technology & Decision Making (World Scientific)
- Asian Journal of Control (Wiley Online Library)
- Journal of Sustainable Computing, Informatics and Systems (Elsevier)
- International Journal of Production Research (Taylor and Francis)
- Journal of ICT Research and Applications (ITB Journal - Indonesia)
- Mathematical Problems in Engineering (Hindawi)
- The Open Fuels & Energy Science Journal (Bentham science)
- KSII Transactions on Internet and Information Systems (Elsevier)

Anna University supervisor Recognition Number: 2540034**List of Research Scholars: 3**

Sl. No.	Name of the Research Scholar	Affiliation of the Scholar	University in which registered	Status of the research	Title/Area of Research
1.	Mr.K.Santhakumar	Nandha Engineering College, Perundurai	Anna University Chennai	Course work Completed	Multimedia Compression
2.	Mr.P.Govinda Moorthi	PSN Engineering College, Tirunelveli	Anna University Chennai	Doing Course work	Healthcare Analysis
3.	Mrs .M.Vimala	PSR Engineering College, Sivakasi	Anna University Chennai	Doing Course work	Medical Image Processing