

DETAILS OF DR. K. SANGAVAI

Name : Dr. K. Sangavai
Designation : Professor
Department : Mathematics
Name of the organization/Institution : PSG College of Technology
Place : Peelamedu, Coimbatore
Pin code : 641004
Whether Affiliated to Anna University : Yes
(yes/NO):
Mobile: : 9843168925
E-mail: : sks.maths@psgtech.ac.in
Area of Specialization: : Graph theory, Cryptography, Networks,
Algorithms

1. **Dr. K. Sangavai**, Dr. C. Porkodi and Amudhan Manisekaran, Cluster Based Routing Algorithm for Wireless Sensor Networks using Closeness Centrality, PROTEUS JOURNAL, Volume11,Issue10,pp.461-469,Oct,2020.
2. Dr. C. Porkodi, P. Priya and **Dr. K. Sangavai**, A Study on Zero divisor graph of the Commutative Ring Z_{2K} ,PROTEUS JOURNAL,Volume11,Issue10,pp.288-299, Oct,2020.
3. Dr. C. Porkodi, P. Priya and **Dr. K. Sangavai**, Some special classes of graphs of the Commutative ring, ADALYA JOURNAL,Volume 9,Issue 8,August 2020, pp.107-116.
4. **Dr. K. Sangavai** and Dr. C. Porkodi, Cluster Based Routing in Wireless Sensor Networks using Betweenness Centrality, Journal of Engineering, Computing & Architecture(JECA),Volume 10, Issue7, July, 2020, pp.80-88.
5. **Dr. K. Sangavai** and Dr. C. Porkodi, A Refined Energy Efficient Clustering Algorithm (REEC) For Wireless Sensor Networks, International Journal of Engineering Science Invention (IJESI) Volume 9; Issue 6, 2020, pp.55-60.
6. Dr. C. Porkodi and **Dr. K. Sangavai**, “An efficient elliptic curve based key management scheme for Distributed sensor network”, European Journal of Engineering research and science (EJER), Vol. 4 No.6 pp.111-116, 2019.
7. M. Amudhan and **Dr. K. Sangavai**, “Graph Theory Based Software Clustering Algorithm, International Journal of Engineering Science Invention (IJESI), Volume 7 Issue9, 2018, pp.61-67.

8. Dr. C. Porkodi and **Dr. K. Sangavai**, "An Online Electronic Cash System based on Elliptic Curve Cryptography, International Journal of Computer Sciences and Engineering (IJCSE), Vol.-6, Issue-6, 2018, pp.1043-1047.
9. **Dr. K. Sangavai** and Dr. C. Porkodi, "A Novel Energy-Efficient Clustering Algorithm (NEEC) for Wireless Sensor Networks", International Journal of Scientific Engineering and Research (IJSER), Volume 7 Issue 5, 2018.
10. Dr. C. Porkodi and **Dr. K. Sangavai**, "Elliptic Curve based "r out of n" Key Distribution Scheme for Hierarchy Wireless Sensor Networks, International journal of Engineering and Applied Sciences IJEAS, Vol. 5 Issue-3, 2018.
11. Dr. C. Porkodi and **Dr. K. Sangavai**, "A Key Distribution Scheme for Hierarchy wireless sensor network based on elliptic curves", International journal of computer and mathematical sciences, IJCMS, Vol. 6 Issue1, pp.16-24, 2017.
12. **Dr. K. Sangavai** and Dr. C. Porkodi, "An Energy-Balance, Cluster Based Routing Algorithm Using Vertex Subset Degree Preserving Spanning Trees For Wireless Sensor Networks", Current Trends in Technology and Science, Vol. 4, Issue. 1, pp.441-445, 2015.
13. Dr. R. Anitha and **Dr. K. Sangavai**, "Vertex Degree Preserving Spanning Trees in Graphs", Indian Journal of Mathematics Research, Vol. 1, No. 1, pp.19-30, 2013.
14. **Dr. K. Sangavai** and Dr. R. Anitha, "Degree Preserving Spanning Tree Set", International Journal of Mathematics and Computer Applications Research, Vol. 3, Issue 1, pp.237-248, 2013.
15. **Dr. K. Sangavai** and Dr. R. Anitha, "Generating all degree constrained and degree preserving spanning trees of a weighted graph in order of increasing cost", International Journal of Applied Mathematics and Computation, Vol. 4(1), pp.13-23, 2012.
16. **Ms. K. Sangavai** and Dr. R. Anitha, "Application of Vertex Subset Degree Preserving Spanning Trees in Sensor Networks", Discrete Mathematics, Algorithms and Applications, Vol. 2, pp.277-289, 2010.
17. Dr. R. Anitha and **Ms. K. Sangavai**, "Degree Preservable Graphs", International Journal of Mathematics and Computation Vol. 1, pp.36-42, 2008.
18. Dr. R. Anitha and **Ms. K. Sangavai**, "A Quick Survey on the Solutions of Degree Constrained Minimum Spanning Tree Problem", International Review of Pure and Applied Mathematics, Vol. 4, pp.179-182, 2008.
19. Dr. R. Anitha and **Ms. K. Sangavai**, "On Vertex Subset Degree Preserving Spanning Trees", International Journal of Computational and Applied Mathematics, Vol. 2, pp.115-123, 2007.