

Center for Distance and Online Education
Bharathidasan University
Tiruchirappalli-620 024

Tamilnadu, India

+91 431-2407054

✉ rsmanikandan@bdu.ac.in

Employee Number:BDU1780870



R.S. Manikandan

Associate Professor
Mathematics

Academic Qualifications: M.Sc., M.Phil., Ph.D

Teaching Experience: 15 Years

Research Experience: 20 Years

Areas of Research

Cycle Decompositions of Graphs
Topological Indices of Product Graphs

Research Supervision/Guidance:

| Program of Study | | Completed | Ongoing |
|------------------|------|-----------|---------|
| Research | Ph.D | 1 | 1 |

Publications

| International | | National | | Others |
|---------------|-------------|----------|-------------|--------------------------------------|
| Journals | Conferences | Journals | Conferences | Books/Chapters Monographs/Manuals |
| 24 | - | - | - | - |

h index: 7

i10 index: 7

Total Citations: 169

List of Publications

1. R.S.Manikandan, P.Paulraja Cp-decompositions of some regular graphs *Discrete mathematics* 306 (4) 429-451 2006
2. R.S.Manikandan, P.Paulraja C 5-decompositions of the tensor product of complete graphs *Australasian Journal of Combinatorics* 37 285 2007
3. C.Surianarayanan, G.Ganapathy, R.S.Manikandan, An approach for selecting best available services through a new method of decomposing QoS constraint, *Service Oriented Computing and Applications* 9 107-138 2015
4. R.S.Manikandan, P.Paulraja, Hamilton cycle decompositions of the tensor product of complete multipartite graphs, *Discrete mathematics* 308 (16) 3586-3606 2008
5. R.S.Manikandan, P.Paulraja, C 7-decompositions of the tensor product of complete graphs, *Discussiones Mathematicae Graph Theory* 37 523-535 2017
6. C.Surianarayanan, G.Ganapathy, R.S.Manikandan, Towards quicker discovery and selection of web services considering required degree of match through indexing and decomposition of non-functional constraints, *International Journal of Computational Science and Engineering* 10 (1-2) 45-69 2015
7. R.S.Manikandan, P.Paulraja, Hamiltonian decompositions of the tensor product of a complete graph and a complete bipartite, *Ars Combinatoria* 80, 33-44 2006
8. R.S.Manikandan, P.Paulraja, Hamilton cycle decompositions of the tensor products of complete bipartite graphs and complete multipartite graphs, *Discrete mathematics* 310 (21), 2776-2789 2010
9. R.S.Manikandan, P.Paulraja, T.Sivakaran, p2-cycle decompositions of the tensor product of complete graphs, *Australas. J Comb.* 73, 107-131 2019
10. R.Muruganandam, R.S.Manikandan, M.Aravi, The multiplicative Zagreb indices of products of graphs, *Int. J. Math. Res* 8 (1), 61-69 2016
11. R.S.Manikandan, P.Paulraja, S.Sivasankar, Directed Hamilton cycle decompositions of the tensor product of symmetric digraphs, *ARS Combinatoria* 98, 379-386 2011
12. R.S.Manikandan, P.Paulraja, S.Sivasankar, Directed Odd Cycle Decompositions of Some Regular Digraphs, *Ramanujan Mathematical Society Lecture Notes Series, Number 7*, Eds R. Balakrishnan and CE Veni Madhavan, 175-181 2008
13. S.Ganesamurthy, R.S.Manikandan, P.Paulraja, Decompositions of some classes of regular graphs and digraphs into cycles of length $4p$, *Australas. J Comb.* 79, 215-233 2021
14. C.Surianarayanan, G.Ganapathy, R.S.Manikandan, A practical approach to enhancement of accuracy of similarity model using WordNet towards semantic service discovery, *Handbook of Research on Demand-Driven Web Services: Theory, Technologies 2014* 245-265 IGI Global 2014
15. S.Menaka, R.S.Manikandan, The hyper Zagreb index of some product graphs, *J. Math. Comput. Sci.* 11 (2) 1753-1766 2021

16. R.Muruganandam, R.S.Manikandan, M.Aruvi, The multiplicative versions of the reciprocal degree distance and the reciprocal Gutman index of some graph products, 2017
17. R.Muruganandam, R.S.Manikandan, M.Aruvi, The multiplicative version of degree distance and the multiplicative version, *J. Math. Comput. Sci.* 6 (4) 568-580 2016
18. R.Muruganandam, R.S.Manikandan, M.Aruvi, The multiplicative version of degree distance and the multiplicative version of Gutman index of strong product of some graphs, *Int. J. Appl. Math. Sci* 9, 29-40 2016
19. M.Aruvi, V.Piramanantham, R.S.Manikandan, Distance based F-index of some graph products, *Bull. Int. Math. Virtual Inst* 10 (3), 459-471 2020
20. R.Muruganandam, R.S.Manikandan, M.Aruvi, Sharp Upper bounds for Multiplicative Version of Degree Distance and Multiplicative Version of Gutman Index of Some Products of Graphs, *Journal of Algorithms and Computation* 50 (1), 1-28 2018
21. R Muruganandam, R.S.Manikandan, Sharp Upper Bounds for Multiplicative Degree Distance of Graph Operations, *Open Access Library Journal* 4 (07) 2017
22. S.Menaka, R.S.Manikandan, R.Muruganandam, The Wiener index of Disjunction and Symmetric Difference of two graphs, *Advances in Mathematics: Scientific Journal* 10 (2021), no.4 2045–2052
23. S.Menaka, R.S.Manikandan, The Second Hyper Zagreb Index of Some graph Operations, *Advances in Mathematics: Scientific Journal* 10 (2021) no.2 787–797
24. R.Muruganandam, R.S.Manikandan, M.Aruvi, The exact and the sharp upper bound for multiplicative Zagreb indices of graph product, *Bulletin of the International Mathematical Virtual Institute*, ISSN (p) 2303-4874, ISSN (o) 2303-4955.