

CURRICULUM VITAE

NAME : S. MONIKANDAN (சிவராமகிருஷ்ணன் மணிகண்டன்)

DESIGNATION : PROFESSOR AND HEAD

INSTITUTION : Department of Mathematics
Manonmaniam Sundaranar University
Tirunelveli 627 012
Tamil Nadu, India.
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DATE OF BIRTH : 30th July 1974

ORCID <http://orcid.org/0000-0001-9805-2914>

WEB OF SCIENCE <http://www.webofscience.com/wos/author/record/P-4424-2017>

SCOPUS ID <http://www.scopus.com/inward/authorDetails.url?authorID=56508519400>

GOOGLE SCHOLAR <https://scholar.google.com/citations?hl=en&user=l2vLSEEAAAAJ>

VIDWAN <https://vidwan.inflibnet.ac.in/profile/371369>

RESEARCH GATE <https://www.researchgate.net/profile/S-Monikandan>

INFLIBNET <https://shodhganga.inflibnet.ac.in/browse?type=author&order=ASC&rpp=20&value=Monikandan+S>

ACADEMIC QUALIFICATIONS

Ph.D. (Mathematics)	Manonmaniam Sundaranar University, 2006
UGC-NET (Mathematics)	CSIR, 2001
M.Phil. (Mathematics)	Madurai Kamaraj University, 1999
M.Sc. (Mathematics)	Manonmaniam Sundaranar University, 1998
B.Sc. (Mathematics)	Manonmaniam Sundaranar University, 1996

ACADEMIC ACHIEVEMENTS

1. **My paper** with my scholar (P. Devi Priya) entitled “A Reduction of the Reconstruction Conjecture” has **won Runner up – II** of “**Dr. K. V. Rao Research Awards**” for the year 2019 in Mathematics in the **19th Annual Award Competition** conducted by **Dr. K. V. Rao Scientific Society, Hyderabad** and my scholar has won **YOUNG SCIENTIST AWARD** of citation 2018-2019 for her outstanding achievements in Mathematics. This comprises of a citation, memento and a cash award of **Rs. 10,000/-**. **A mathematics scholar from IISc, Bangalore has won the winner prize in the competition.**
2. **Second Rank** holder in the **National level Second S.E.R.C. Summer School on Special Functions and Functions of Matrix argument** (School Directors : Dr.A.M. Mathai (Montreal University, Canada) and Dr.K.S.S. Nambooripad) held at Centre for Mathematical Sciences, Trivandrum, during 29th May to 30th June, 2000 (33 days).
3. **Second Rank** holder in the Ayya Nadar Janaki Ammal College (Autonomous), Sivakasi in **M.Phil. Mathematics.**
4. **University 10th Rank** holder and the **College First Rank** holder (Vivekananda College, Kanyakumari) in **M.Sc. Mathematics.**
5. Recipient of **CSIR – Senior Research Fellowship.**
6. Recipient of **Junior Research Fellowship** sponsored by **the Department of Science and Technology, Govt. of India, New Delhi** for 3 ½ years.

FILED OF SPECIALIZATION : Graph Theory/ Topology

AREA OF RESEARCH : Isomorphism Problems
(**Ulam’s Conjecture** / **Reconstruction Conjecture**)

FACULTY PLACEMENT

July 2022 to till date Professor and Head
Manonmaniam Sundaranar University
Tirunelveli -627 012, Tamilnadu. INDIA

December 2021 to till date Professor
Manonmaniam Sundaranar University
Tirunelveli -627 012, Tamilnadu. INDIA

December 2018 to Nov 2021 Associate Professor
Manonmaniam Sundaranar University
Tirunelveli -627 012, Tamilnadu. INDIA

November 2010 to Nov 2018 Assistant Professor
 Manonmaniam Sundaranar University
 Tirunelveli -627 012, Tamilnadu. INDIA

October 2005 to September 2010 Assistant Professor, Annamalai University
 Chidambaram, Tamilnadu. INDIA

July 2000 to October 2001 Lecturer, Rev. Jacob Memorial Christian College
 Dindigul Dist., Tamilnadu. INDIA

ADMINISTRATIVE PLACEMENT

Feb. 2011 to Aug. 2019 Coordinator, B.Sc./M.Sc Mathematics
 DD&CE -- PCP Programme
 Manonmaniam Sundaranar University

MAY 2019 TO NOV. 2019 CHAIRPERSON
 BOS- BSc. Mathematics in Affiliated Colleges
 Manonmaniam Sundaranar University

TITLE OF RESEARCH DISSERTATIONS

Ph.D. Dissertation : Graph Theory Problems Related to Ulam’s Conjecture
 M.Phil. Dissertation : A Study on the Reconstructible Properties of Graphs

RESEARCH PUBLICATIONS

TOTAL (PUBLISHED/ACCEPTED) : 51 (LIST ENCLOSED AS ANNEXURE I)
 NATIONAL : 10
 INTERNATIONAL : 41

PAPERS PUBLISHED IN SCIENCE CITATION INDEX (SCI) JOURNALS : 18

PAPERS REVIEWED IN AMERICAN MATHEMATICAL SOCIETY- MATHEMATICAL REVIEW : 30

MAJOR RESEARCH PROJECT COMPLETED : 2 ONGOING : 1

COMPLETED

- Funding Agency : DST, New Delhi
 Title : Reconstruction of Graphs and N-reconstruction of Digraphs

Principal Investigator : Dr.S. Monikandan
 Sanctioned Amount : **Rs.8,99,280/-**
 Number : SR/S4/MS:628/09

2. Funding Agency : DST, New Delhi
 Title : Reconstruction of Graphs and Digraphs from
 (Degree Associated) subgraphs
Principal Investigator : **Dr.S. Monikandan**
 Sanctioned Amount : **Rs.9,93,300/-**
 Number : EMR/2016/000157

ONGOING

3. Funding Agency : National Board for Higher Mathematics, Mumbai
 Title : Ulam's Conjecture in Graph Theory
Principal Investigator : **Dr.S. Monikandan**
 Sanctioned Amount : **Rs.16,30,400/-**
 Period : **2022 – 2025**
 Number : 02011/14/2022/NBHM(R.P)/R&D II/10491

RESEARCH GUIDANCE

1. Number of students awarded Ph.D : **7**
 2. Number of students submitted Ph.D : **0**
 3. Number of students doing Ph.D : **8**
 4. Number of students awarded M.Phil. : **30**

TEACHING EXPERIENCE

- Research : **22** years
 Teaching P.G. : **19** years
 U.G : **20** years

BOOKS WRITTEN

PUBLISHED : 3

- TITLE : STRUCTURES OF GRAPHS FROM RINGS
 PUBLISHER : UNIVERSITY PUBLICATION, M.S.UNIVERSITY, 2018.
CO-AUTHORS : T. TAMIZH CHELVAM, K. SELVAKUMAR

- TITLE : RECENT ADVANCES IN GRAPH RECONSTRUCTION
 PUBLISHER : LAMBERT ACADEMIC PUBLISHING, GERMANY, 2014.
 ISBN : 978-3-659-61383-8
CO-AUTHORS : J. BALAKUMAR

- TITLE : DEGREE ASSOCIATED RECONSTRUCTION NUMBER OF GRAPHS
 PUBLISHER : LAMBERT ACADEMIC PUBLISHING, GERMANY, 2019.
 ISBN : 978-613-9-57926-6

A CHAPTER IN A BOOK

CHAPTER TITLE : RECONSTRUCTION OF GRAPHS
TITLE OF THE BOOK : GRAPH THEORY
PUBLISHER : INTECH OPEN, LONDON, 2021.
EDITOR : HARUN PIRIM

NUMBER OF CONFERENCES/WORKSHOPS/SUMMER SCHOOLS/SEMINARS ATTENDED

AS RESOURCE PERSON : 17
AS PARTICIPANT : 43
AS COORDINATOR : 06

MEMBERSHIP IN ACADEMIC BODIES

- Life Member of Academy of Discrete Mathematics of India.
- Member of Indian Science Congress.
- Reviewer for Mathematical Reviews of American Mathematical Society.
- Refereed research papers for the following Journals:

1. Discrete Mathematics (Elsevier)
2. Discrete Applied Mathematics (Elsevier)
3. Taiwanese Journal of Mathematics
4. Journal of Discrete Algorithms (Elsevier)
5. ARS Combinatoria
6. Transactions on Combinatorics
7. Journal of Algorithms and Computation
8. AKCE Int. Journal of Graphs and Combinatorics
9. Discrete Mathematics, Algorithms and Applications
10. Discussiones Mathematica Graph Theory

RESEARCH PUBLICATIONS

Total Publications	: 51
International	: 41
National	: 10

PAPERS PUBLISHED IN SCIENCE CITATION INDEX (SCI/SCIE) JOURNALS : 18

PAPERS REVIEWED IN AMERICAN MATHEMATICAL SOCIETY MATHEMATICAL REVIEWS : 30

SCI/SCIE JOURNALS : 18

1. S. Devi and S. Monikandan, Recognition of finite topological spaces with no isolated point, *Soft Computing* 27 (2023), 12049–12056. (SCIE- Journal) <https://link.springer.com/article/10.1007/s00500-023-08773-x>
2. S. Monikandan and A. Anu, Reconstruction Number of Graphs with Unique Pendant Vertex, *Discrete Applied Mathematics* 31 (2021), 357-365 (Elsevier) (SCI -Journal) (IF 0.983) <https://doi.org/10.1016/j.dam.2020.06.005>
3. P. Anusha Devi and S. Monikandan, Graphs with Arbitrarily Large Adversary Degree Associated Reconstruction Number *AKCE Int. J. Graphs and Combin.*, Vol. 17 (3) (2020), 1045-1051. doi.org/10.1016/j.akcej.2019.12.022. (SCIE- Journal)
4. N. Kalaimathi and S. Monikandan, Degree Associated Edge Reconstruction Number of Split Graphs with Biregular Independent Set is one, *AKCE Int. J. Graphs and Combin.* Vol. 17 (3) (2020), 771-776. doi.org/10.1016/j.akcej.2019.12.009. (SCIE- Journal)
5. Anu, A and Monikandan, S.: Nearly all biregular graphs have degree associated edge reconstruction number at most three, *Ars Combinatoria*, 147 (2020) 263-280.(IF 0.259) (SCIE -Journal)
6. S. Monikandan and N. Kalai Mathi, On the Strong Reconstruction of Nearly Trees *Ars Combinatoria*, preprint, 2019. (SCIE -Journal)
7. P. Devi Priya and S. Monikandan, Distance hereditary graphs G of connectivity two or three and $\text{diam}(G) = \text{diam}(G) = 3$ are reconstructible, *Indian Journal of Pure and Applied Mathematics* 50 (2) (2019), 477-484. (SCI -Journal) <https://doi.org/10.1007/s13226-019-0339-2>
8. P. Devi Priya and S. Monikandan, Reconstruction of distance hereditary 2-connected graphs, *Discrete Mathematics (Elsevier)* 341 (2018), 2326–2331. (SCI -Journal) (IF 0.639) MR3810280 <https://doi.org/10.1016/j.disc.2018.05.003>

9. Anusha Devi, P., and Monikandan, S.,: Degree Associated Reconstruction Parameters of Total Graphs, *Contributions to Discrete Mathematics*, Vol. 12 (2) (2017), 77-90. **IF-0.28 (SCIE -Journal) MR3739055**
10. Anusha Devi, P., and Monikandan, S.,: Degree Associated Reconstruction Number of Graphs with Regular Pruned Graph, *Ars Combinatoria*, 134 (2017) 29-41. **(IF 0.259) (SCIE - Journal) MR3677149**
11. Anusha Devi, P., and Monikandan, S.,: Degree Associated Reconstruction Number of Certain Connected Digraphs with Unique End vertex, *Australasian J. Combinatorics*, Vol. 66 (3) (2016), 365-377.
12. Monikandan, S., and Balakumar, J.,: On pairs of graphs having $n-2$ cards in common, *Ars Combinatoria* 124 (2016) 289-302. **(IF 0.268) (SCIE -Journal) MR3468815**
13. Monikandan, S., and Balakumar, J.,: A Reduction of The Graph Reconstruction Conjecture, *Discussiones Mathematicae Graph Theory*, Vol. 34, No. 3 (2014), 529-537. **(IF 0.282) (SCIE -Journal) MR3227045** <https://doi.org/10.7151/dmgt.1746>
14. Ramachandran, S., and Monikandan, S.,: Pairs of graphs having $n-2$ cards in common, *Ars Combinatoria*, 112 (2013) 213-224 **(IF 0.204) (SCIE -Journal) MR3112577**
15. Ramachandran, S., and Monikandan, S.,: A sufficient condition for Set Reconstruction, *Ars Combinatoria*, 91 (2009), 439 - 446. **MR# 2010f:05126 (IF 0.396) (SCIE -Journal)**
16. Ramachandran, S., and Monikandan, S.,: Graphs with $n-3$ isomorphic vertex-deleted subgraphs, and their reconstructibility, *Utilitas Mathematica*, 75 (2008), 225 - 248. **MR# 2009f:05184. (IF 0.707) (SCIE -Journal)**
17. Ramachandran, S., and Monikandan, S.,: All graphs are set-reconstructible if all 2-connected graphs are set-reconstructible, *Ars Combinatoria*, 83 (2007), 341 - 352. **MR# 2007m:05170 (IF 0.315) (SCIE -Journal)**
18. Ramachandran, S., and Monikandan, S.,: All digraphs are N -reconstructible if all digraphs with 2- connected underlying graphs are N -reconstructible, *Utilitas Mathematica* 71 (2006), 225 - 234. **MR 2278835 (IF 0.707) (SCIE -Journal)**

OTHER JOURNALS BUT IN SCOPUS / WoS : 25

1. V. Manikandan and S. Monikandan, Nonsplit graphs with split maximal induced subgraphs, **Journal of Indonesian Mathematical Society**, 2023. (To appear)
2. A. Josephine Shilpa Devi and S. Monikandan, Reconstruction of Topological spaces from n points deleted subspaces, **J. Adv. Math. Stud.** 16 (1) (2023), 01-14.

3. P. Anusha Devi and S. [Monikandan](#), Degree Associated Edge Reconstruction Parameters of Strong Double Brooms, *Journal of Automata, Languages and Combinatorics* (2022) (to appear).
4. P. Devi Priya and [S. Monikandan](#), Reconstruction of 2-connected parity graphs, *Australasian J. Combinatorics* 80 (2) (2021), 167–177.
5. A. Anat Jaslin Jini and [S. Monikandan](#), Reconstruction Number of Finite Topological Spaces with unique Isolated Point, *Acta Universitatis Apulensis* No. 65 (2021), 89-110.
6. P. Devi Priya and [S. Monikandan](#), Stronger reconstruction of distance-hereditary Graphs, *TWMS J. App. and Eng. Math.* (Proceedings of the International Conference on Graph Theory and its Applications (ICGTA 2019), held at SSN College of Engineering, Chennai during 20-21, November 2019) Vol. 11, Special Issue (2021), 25-29.
7. A. Anat Jaslin Jini and [S. Monikandan](#), All Finite Topological Spaces Are Weakly Reconstructible, *Springer Proceedings in Mathematics & Statistics* (Proceedings of the International Conference on Mathematical Analysis and Computing (ICMAC – 2019) held at SSN College of Engineering, Chennai during 23-24, December 2019) Vol. 344 (2021), 78-95.
8. P. Devi Priya and [S. Monikandan](#), Reconstruction of 2-connected Paw-free Graphs, *AIP Conference Proceedings* 2261, 030017 (2020) (Int. Conf. on Adv. Applicable. Math. held at Bharathiar University during 21-22 Feb. 2020). <https://doi.org/10.1063/5.0017153>. (IF 0.4)
9. A. Anat Jaslin Jini and [S. Monikandan](#), Reconstruction of finite topological spaces with more than one isolated point, *Advances in Mathematics: Scientific Journal* 9 (4) (2020), 1487–1493. <https://doi.org/10.37418/amsj.9.4.2>.
10. [S. Monikandan](#) and N. Kalai Mathi, Degree Associated Edge reconstruction Number of Split Graphs with regular Independent set is one or two, *Journal of Combinatorics and Number Theory* 10 (1) (2019), 63-73.
11. [S. Monikandan](#) and N. Kalai Mathi.,: On the Stronger Reconstruction of Nearly Acyclic Graphs, *J. Combin Maths. and Combin. Comput*, (2018) (In press)
12. Kalaimathi, N. and [Monikandan, S.](#): Degree Associated Reconstruction Number of Split Graphs with Regular Independent Set, Proceedings of the International Conference on Theoretical Comp. Sci. and Discrete Math. (held at Kalasalingam University, India, December 19-21, 2016), *LNCS 10398, Springer-Verlag, Berlin*, p. 106-112, 2017. [MR3696712 https://doi.org/10.1007/978-3-319-64419-6_14](https://doi.org/10.1007/978-3-319-64419-6_14)
13. Anu, A and [Monikandan, S.](#): Degree Associated Reconstruction Number of Biregular Bipartite Graphs with Degrees Differ by At Least Two, Proceedings of the International Conference on Theoretical Comp. Sci. and Discrete Math. (held at Kalasalingam University,

- India, December 19-21, 2016), *LNCS 10398, Springer-Verlag, Berlin*, p. 1-9, 2017. **MR3696699** https://doi.org/10.1007/978-3-319-64419-6_1
14. Anu, A and Monikandan, S.: Degree associated reconstruction number of certain connected graphs with unique end vertex and a vertex of degree $n-2$, *Discrete Mathematics, Algorithms and Applications*, Vol. 8, No. 4 (2017) , 1650068-1 –1650068-16. <https://doi.org/10.1142/s1793830916500683>
 15. Anusha Devi, P., and Monikandan, S.,: Degree Associated Reconstruction Number of Certain Connected Digraphs with Unique End vertex, *Australasian J. Combinatorics*, Vol. 66 (3) (2016), 365–377.
 16. Anusha Devi, P., and Monikandan, S.,: Degree Associated Edge Reconstruction Number of Graphs with Regular Pruned Graph, *Electron. J. Graph Theory Appl.* 3 (2) (2015) 146-161. DOAJ 2338-2287 **MR3417912** <https://doi.org/10.5614/ejgta.2015.3.2.4>
 17. Monikandan, S., and Sundar Raj, S.,: Adversary Degree Associated Reconstruction Number, *Discrete Mathematics, Algorithms and Applications*, Vol. 7, No. 1 (2015) , 1450069-1 – 1450069-16. **MR3305479** <https://doi.org/10.1142/s1793830914500694>
 18. Anu, A and Monikandan, S.: Degree Associated Reconstruction Number of Graphs Obtained by certain Graph Operations, *Journal of Combinatorics, Information & System Sciences* 39, No. 1-4 (2014), 135–148.
 19. Monikandan, S., Anusha Devi, P., and Sundar Raj, S.,: Adversary Degree Associated Reconstruction Number of Graphs, *J. of Discrete Algorithm (Elsevier)*, 23 (2013) 35-41. **MR#3132878 (IF: 0.91)**. <https://doi.org/10.1016/j.jda.2013.08.003>
 20. Sundar Raj, S., and Monikandan, S.,: Adversary Degree Associated Reconstruction Number of Graphs obtained from Complete graphs or Cycles. *J. of Combinatorics, Information and System Sciences*, Vol. 37, No. 1 (2012), 75-94.
 21. Monikandan, S., Sundar Raj, S., Jayasekaran, C., and Santhakumaran, A.P.,: A note on the Adversary Degree Associated Reconstruction Number of Graphs, *J. of Discrete Mathematics*, (2013), 5 pages, <http://dx.doi.org/10.1155/2013/808105>.
 22. Monikandan, S., and Sundar Raj, S.,: Degree associated edge reconstruction number, *Combinatorial Algorithms, Lecture Notes in Computer Science* 7643 (*Springer-Verlag, Berlin*, 2012), 100--109. **MR3056380** https://doi.org/10.1007/978-3-642-35926-2_12
 23. Monikandan, S., and Balakumar, J.,: Reconstruction of bipartite graphs and triangle-free graphs with connectivity two, *Australasian J. Combinatorics*, 53 (2012), 141-150. **MR 2961979**

24. Ramachandran, S., and [Monikandan, S.](#): Graph Reconstruction Conjecture: Reductions using complement, connectivity and distance, *Bull. of Institute of Combinatorics and Its Applications*, 56 (2009), 103 –108. **MR# 2010g:05250 (IF 0.2)**
25. Ramachandran, S., and [Monikandan, S.](#): A weaker form of Ulam’s Conjecture, *Bull. of Institute of Combinatorics and Its Applications*, 49 (2007), 87–92. **MR 2285525**

CARE JOURNALS / CONFERENCE PROCEEDINGS : 8

1. Josephine Shilpa Devi and [S. Monikandan](#), Reconstruction of soft topological spaces, Proceedings of the National Conference on Algebraic Graph Theory, Graph Theory and Analysis (MSUMEC 2023) held at Manonmaniam Sundaranar University, Tirunelveli during February 23-24, 2023, pages 52-60. ISBN:978-81-965238-3-1.
2. S. Devi and [S. Monikandan](#), Property reconstruction of certain bitopological spaces, Proceedings of the National Conference on Algebraic Graph Theory, Graph Theory and Analysis (MSUMEC 2023) held at Manonmaniam Sundaranar University, Tirunelveli during February 23-24, 2023, pages 21-30. ISBN:978-81-965238-3-1.
3. V. Manikandan and S. Monikandan, Split graphs with Nonsplit edge cards, Proceedings of the National Conference on Algebraic Graph Theory, Graph Theory and Analysis (MSUMEC 2023) held at Manonmaniam Sundaranar University, Tirunelveli during February 23-24, 2023, pages 84-89. ISBN:978-81-965238-3-1.
4. Josephine Shilpa Devi and [S. Monikandan](#), Reconstruction of Separation Axioms of Topological Spaces and Soft Spaces, Proceedings of International Conference on Analysis and Number Theory - 2022 held at Ayya Nadar Janaki Ammal College, Sivakasi during 27 - 29 October 2022. ISBN: 978-93-83191-89-5
5. S. Devi and [S. Monikandan](#), Recognizable Properties of Finite Bitopological Spaces, Proceedings of International Conference on Analysis and Number Theory - 2022 held at Ayya Nadar Janaki Ammal College, Sivakasi during 27 - 29 October 2022. ISBN: 978-93-83191-89-5
6. [S. Monikandan](#) and P. Devi Priya, Progress on the Reconstruction Conjecture, *Indian J. Discrete Math.* 7 (1) (2021), 1–26.
7. A. Anat Jaslin Jini and [S. Monikandan](#), Reconstruction properties of Bitopological spaces, proceedings of the International Conference on Mathematical, Physics and Dynamics held at Solapur, India, on Dec. 11, 2020.
8. Ramachandran, S., and [Monikandan, S.](#): A note on the edge reconstruction problem, *Int. J. of Manage. and systems* 20 (2004) 229–234.