

Faculty Profile



Dr. R. Keerthana, M. Sc., M.Phil, Ph.D

HIGHLIGHTS:

- Number of Journal Publications: 8
- H-Index: 2
- Project Funding Received: -
- Patents Published: -
- Patents Granted: -

PROFESSIONAL LINKS:

- Scopus ID: 59348900800
- Scopus Link: <https://www.scopus.com/authid/detail.uri?authorId=59348900800>
- Google Scholar ID:
<https://scholar.google.com/citations?user=YH9AXLUAAAAJ&hl=en>
- Anna University Faculty ID:
- AICTE Faculty ID: 1-45825952392
- Orchid ID: <https://orcid.org/0000-0001-8404-8367>
- Linked In: <https://www.linkedin.com/in/keerthana-ramesh-1590131b2/>

PROFESSIONAL BACKGROUND:

- Teaching Experience till date: 1 month 8 days

AREA OF SPECIALIZATION:

- Fuzzy Graph Theory
- Fuzzy Hypergraph Theory
- Intuitionistic and Neutrosophic Graph Theory
- Multi-Criteria Decision Making Problems

PAPERS PUBLISHED:

- **Keerthana, R.** and Venkatesh, S. Bivalued Fuzzy Graph, National Academy Science Letters, 1-7, 2025 (SCIE).

- **Keerthana, R.** and Venkatesh, S. A systematic study of intercropping agricultural system using fuzzy and inverse fuzzy hypersoft hypergraph. *Journal of Applied Mathematics and Computing*, 1-28, 2025 (SCIE).
- **Keerthana, R.**, Venkatesh, S., Gobithaasan, R. U., and Salah, J. Inverse Fuzzy-Directed Graph With an Application in Traffic Flow Problem. *Journal of Mathematics*, 2024(1): 1-19, 2024 (SCIE).
- Alqahtani, M., **Keerthana, R.**, Venkatesh, S., and Kaviyarasu, M. Hesitant Bipolar-Valued Intuitionistic Fuzzy Graphs for Identifying the Dominant Person in Social Media Groups. *Symmetry*, 16(10): 1-27, 2024 (SCIE).
- **Keerthana, R.** and Venkatesh, S. On fuzzy labeling of cycle with k -parallel P_s and C_s chords. *Multidisciplinary Science Journal*, 6: 1-6, 2024 (Scopus).
- Keerthana, R., Venkatesh, S., and Srikanth, R. On Certain Operations on Strong Interval Valued Neutrosophic Graph with Application in the Cardiac Functioning of the Human Heart. *Neutrosophic Sets and Systems*, 60(1): 234-267, 2023 (Scopus).
- **Keerthana, R.** and Venkatesh, S. First Zagreb Index on Intuitionistic Fuzzy Graph. *TWMS Journal of Applied and Engineering Mathematics*, Special Issue, No.1, pp. 262-272, 2023 (Scopus).
- Jayapriya, V., and **Keerthana, R.** Neutrosophic Soft Bipartite Graph, *The International journal of analytical and experimental modal analysis*, Special Issue, pp. 301-305, 2020 (UGC-CARE Group II).
- **Keerthana, R.**, Venkatesh, S., and Gobithaasan, R. U. Replenishment of Bhadla Solar Park using Interval Valued Neutrosophic Threshold Graph, *International Journal of Mathematics in Operational Research*. (Upcoming Articles) (**Scopus**).

CONFERENCES/SEMINARS/WORKSHOPS ATTENDED:

- Presented a research paper, “Energy and Laplacian Energy in Inverse Fuzzy Graph” at International Conference on Mathematics and its Applications in Technology-[ICMAT’ 25], Srinivasa Ramanujan Centre, SASTRA Deemed University during March 28- March 29, 2025.
- Participated in the International Conference on “Contributions of Ancient Mathematics to the Development of Science and Technology” at Srinivasa Ramanujan Centre, SASTRA Deemed University during 2024.
- Participated in “Indian Council of Social Science Research (ICSSR) Research Summit 2024” in collaboration with Springer Nature, held at SASTRA Deemed to be University on October 14, 2024.
- Presented a research paper, “On fuzzy labeling of cycle with k -parallel P_s and C_s chords” at International Conference on Mathematics and its Applications in Technology-[ICMAT’ 23], Srinivasa Ramanujan Centre, SASTRA Deemed University during 2023.
- Participated in “IP Awareness/Training program” under National Intellectual Property Awareness Mission on March 11, 2023 organized by Intellectual Property Office, Government of India.
- Participated in Teacher’s Enrichment Workshop held at Srinivasa Ramanujan Centre, SASTRA Deemed University during Nov 27 – Dec 02, 2023.
- Participated in 1st International Mathematics Conclave at SASTRA Deemed University during the year 2023.

- Presented a research paper, “First Zagreb Index on Intuitionistic Fuzzy Graph” at International Conference on Wavelet Analysis and Graph Theory- ICWAGT’22 during the year 2022.
- Presented a research paper, “Fuzzy Labeling on Cycle Related Graphs” at International Conference on Mathematical Sciences & Applications-ICMSA’22 during March 09-March 11, 2022.
- Participated in the 40 hours FDP on “Contemporary Cryptographic Solutions for IoT Based Applications” organized by E&ICT Academy, NIT Warangal and School of Computing, SASTRA Deemed to be University during 20th and 30th August 2021.
- Participated in “International Conference on Pure and Applied Mathematics” at Idhaya College for Women, Kumbakonam during 2020.
- Presented a paper named “Hypergraph Algorithm for Haplotype Assembly Problem” in National Conference on Pure and Applied Mathematics held at Srinivasa Ramanujan Centre, SASTRA Deemed University during the year 2017.

PROFESSIONAL MEMBERSHIPS:

- Nil