

**Staff Name** : **Dr. K. SASIKALA**  
**Faculty ID** : **TMA03**  
**Designation** : **Professor**  
**Qualification** : **M.Sc., M.Phil., PGDCA., Ph.D.**  
**Experience** : **29 years 9 Months**  
**Area of Specialization** : **Computer Mathematics –Formal language theory**  
**Subject Handled in UG** : **1. Mathematics I  
2. Mathematics II  
3. Transform and PDE  
4. Numerical Methods  
5. Discrete Mathematics  
6. Probability and Queuing theory  
7. Probability and statistics  
8. Theory of Computation**  
**Subject Handled in PG** : **1. Applied Mathematics for probability and Statistics  
2. Mathematical foundation of Computer Science**  
**Journal Published** : **International: 11 National: --**

- 1. Adjunct Partial Array Token Petri Net Structure, Combinatorial Image Analysis. IWCIA 2022. Lecture Notes in Computer Science, vol 13348. Springer, Cham. [https://doi.org/10.1007/978-3-031-23612-9\\_12](https://doi.org/10.1007/978-3-031-23612-9_12), 01 January 2023.**
- 2. Partial Array Token Petri Net and P System, LNCS Book Series, Vol.135-152, June 2021, [https://doi.org/10.1007/978-3-030-77102-7\\_8](https://doi.org/10.1007/978-3-030-77102-7_8) Scopus**
- 3. Partial array-rewriting P systems and basic puzzle partial array grammars AIP Conference Proceedings, Volume 2277, 030003-1, 030003-10 2020 , <https://doi.org/10.1063/5.0027078> , Scopus.**

4. Shuffle on trajectories over partial array languages, AIP Conference Proceedings, Volume 2277, 030001-1, 030001-8 2020, <https://doi.org/10.1063/5.0026267>, Scopus.
5. Partial array token petri net and p system, Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics) Volume 12687, pp. 135–152,2020 [https://doi.org/10.1007/978-3-030-77102-7\\_8](https://doi.org/10.1007/978-3-030-77102-7_8), Scopus.
6. Partial array grammars and partial array-rewriting P systems, Mathematics in Engineering, Science and Aerospace Volume 11(1), pp. 227–236 ,2020, Scopus.
7. 3D-Array Token Petri Nets Generating Tetrahedral Picture Languages, Lecture Notes in Computer Science, Vol 12148. Springer, Cham. [https://doi.org/10.1007/978-3-030-51002-2\\_7](https://doi.org/10.1007/978-3-030-51002-2_7) , Scopus.
8. Squares in partial arrays, AIP Conference Proceedings Vol 2112, 020034-(1-6),2019, <https://doi.org/10.1063/1.5112219>(Scopus)
9. "Compatibility and Conjugacy on Partial Arrays", Computational and Mathematical Methods in Medicine, vol. 2016, Article ID 5010316, 5 pages, 2016. <https://doi.org/10.1155/2016/5010316>, Scopus, WOS
10. Computing all repeats of a partial word, Journal of Combinatorial Mathematics and Combinatorial Computing, Volume 67, pp. 235–248,
11. Line Languages,Volme-12, Page No. 178– 185 2003, SCOPUS, [https://doi.org/10.1016/S1571-0653\(04\)00484-6](https://doi.org/10.1016/S1571-0653(04)00484-6) SCOPUS.

**Paper Presented in**

**: International: 10 National:-**

**Conferences**

1. Partial Array Token Petri Net and P System, International Conference on Membrane Computing SEP.2020 14-18,Veena Austria, Ulaanbaatar Mongolia

2. **3D-Array Token Petri Nets Generating Tetrahedral Picture Languages, IWCIA 2020, 16/07/2020 TO 18/07/2020, Novi Sad, Serbia**
3. **Shuffle on Trajectories over Partial Array Languages, 1st International Conference on Mathematical Techniques and Applications 2020, SRM Institute of Science and Technology**
4. **Partial array-rewriting P Systems and Basic Puzzle Partial Array Grammars”, 1st International Conference on Mathematical Techniques and Applications 2020, SRM Institute of Science and Technology**
5. **Partial Array Grammars and Partial Array-rewriting P Systems”, Proceedings of the 5th International Workshop and Conference on Mathematical Analysis and Computation 2019, NIT-Trichy**
6. **Partial finite automata and Partial String Token Petri Nets”, Proceedings of ICMCS 2008, Loyola College, Chennai.**
7. **Some Combinatorial Results on Bernoulli Sets and P codes”, Presented in 14th International Conference on Computational Mathematics and Statistical Models 2007, IIT Madras.**
8. **Some Combinatorics results On Pcodes”, presented in International Conference on Discrete Mathematics (ICDM-2006), Indian Institute of Science Bangalore, December 2006.**
9. **Computing all repeats of a partial word using suffix tree and valence Tree” - Proceedings of International Conference on Discrete Mathematics and its Application, Amirtha Institute of Technology, Coimbatore (2004), 220-222.**
10. **Line languages , IWCIA 2003 14-16 may 2003, Palermo (Italy).**

**No of Ph.D. Guided : Completed:01 Ongoing: --**

**Google Scholar ID : <https://scholar.google.co.in/citations?user=Vg9nnGgAAAAJ&hl=en>**

**Scopus ID : <https://www.scopus.com/authid/detail.uri?>**

**authorId=16231470800**