

Dr.SHIRLEY GLORIA D.K.

ASSISTANT PROFESSOR
 PG & RESEARCH DEPARTMENT OF MATHEMATICS
 Dr. AMBEDKAR GOVERNMENT ARTS COLLEGE
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**Personal Details**

Name	Dr.SHIRLEY GLORIA D.K.
Designation	ASSISTANT PROFESSOR
Academic Qualification	M.Sc., M.Phil., Ph.D.

Teaching Experience

Designation	Department	Institution	Period
Assistant Professor	Mathematics	Dr.Ambedkar Government Arts College, Vyasarpadi, Chennai – 600 039.	21.02.2017 to till date
Assistant Professor	Mathematics	Thiru. A. Govindasamy Govt. Arts College, Tindivanam – 604001.	27.05.2015 to 20.02.2017

Area of Specialization

- Theoretical Computer Science (String-Token Petri Nets)

Publications

- International/National Journals

International Journals:

1. **D.K. Shirley Gloria**, Beulah Immanuel, K. Rangarajan, Ranking for Szilard Languages of String Token Petri Nets, International Journal of Advanced Research in Computer Engineering, 3(2),(2009), pp. 457-460, ISSN:0974-4320.
2. **D.K. Shirley Gloria**, Beulah Immanuel, K. Rangarajan, Parallel Context-Free String Token Petri Nets, International Journal of Pure and Applied Mathematics, 59(3), (2010), pp. 275- 289, ISSN 1311-8080.
3. **D.K. Shirley Gloria**, K. Rangarajan, Algorithmic Approach to the Length of the Words of String Token Petri Nets, CIIT International Journal of Data mining and Knowledge Engineering, 3(6), (2011), pp. 387-390, ISSN:0974-9683.
4. **S.Devi and D.K.Shirley Gloria**, Context-free languages of String Token Petri Nets, International Journal of Pure and Applied Mathematics, volume 113, No.11, 2017, 96-104, ISSN 1311-8080.
5. **D.K. Shirley Gloria, K.Nirmala**, Parallel splicing on Iso-Array Token Petri Nets, International Journal of Mathematics Trends and Technology, volume 59, No.3, July 2018,

176-184, ISSN 2231-5373.
6. D.K. Shirley Gloria, G.AlbertAsirvatham , Context – FreeArray-Token Petri Nets, International Journal of Mathematics And its Applications, 6(2-B), 2018, 295-304, ISSN 2347-1557.
7. D.K.Shirley Gloria, S.Devi and K. Nirmala , “Regular string-token Petrinets”,Malaya Journal of Matematik, Vol. 8, No. 2, pp. 445-449, 2020, ISSN(P) : 2319-3786; ISSN(O) : 2321-5666.
8. Shirley Gloria D.K. and D.K.Sheena Christy , “Few Closure Properties of Context-Free Multi-Strings Token Petri Net”, International Journal of Mathematics Trends and Technology, Vol.68, Issue 4, 7-11, April 2022, ISSN : 2231-5373.
9. Shirley Gloria D.K. and D.K.Sheena Christy , “Regular Multi-Strings Token Petri Net”, International Journal of Mathematics and its Applications, 10(1)(2022),79-84, ISSN : 2347-1557.
National Journal: 1. D.K. Shirley Gloria , Beulah Immanuel, K. Rangarajan, Semi Bounded String Token Petri Nets, Acta Ciencia Indica, XXXIV M(4), (2008), pp. 2189 -2193, ISSN: 0970-0455.
• International/NationalConferenceProceedings
International conferences: 1. D.K. Shirley Gloria , Beulah Immanuel, K. Rangarajan, Szilard languages of String Token Petri nets, International Conference on Recent Developments in Combinatorics and Graph Theory at Kalasalingam University, Krishnankoil, Virudhunagar district, India, (2007), pp.42.
2. D.K. Shirley Gloria , Beulah Immanuel, K. Rangarajan,Semi Bounded String Token Petri Nets, International Conference on Trends in information sciences and computing, TISC 2007 at Sathyabama University, Chennai-119, India, (2007), pp. 396- 404.
3. D.K. Shirley Gloria , Beulah Immanuel, K. Rangarajan,Parallel Context-free Languages of String Token Petri Nets, International conference on Mathematics and Computer Science at Loyola College, Chennai, (2008), pp.377-379.
4. D.K. Shirley Gloria , Parsing for Languages of String Token Petri Nets, IEEE Fifth International Conference on Bio-Inspired Computing: Theories arid Applications (BIC-TA 2010) at Liverpool Hope University, Liverpool, U.K., 2, (2010), pp. 1577-1584.
5. D.K. Shirley Gloria, K.Nirmala , Parallel splicing on Iso-Array Token Petri Nets, International Conference on Mathematical Computer Engineering-2017 at VIT University, Chennai Campus, Chennai-600127.
6. D.K. Shirley Gloria, G.AlbertAsirvatham , Context – FreeArray-Token Petri Nets, International Conference on Mathematical Computer Engineering-2017 at VIT University, Chennai Campus, Chennai-600127.
7. D.K.Shirley Gloria, S.Devi and K. Nirmala , “Regular string-token Petrinets”, International Conference on Mathematical Techniques and Applications-2020 at SRMIST, Kattankulathur, Tamil Nadu, India.
8. D.K.Shirley Gloria, S.Devi and K. Nirmala , “Context-Sensitive String-Token Petrinets”, International Conference on Mathematical Sciences-2020 at Sathyabama Institute of Science and Technology, Chennai, Tamilnadu, India.
9. Shirley Gloria D.K., D.K.Sheena Christy , “Context-Free Multi-Strings Token Petri

Net”, Third International Conference on Instrumentation, MEMS and Bio-Sensing Technology(Virtual)–2022 at SRMIST, Kattankulathur, Tamil Nadu, India.
10.Shirley Gloria D.K., D.K.Sheena Christy , “Regular Multi-Strings Token Petri Net”, Third International Conference on Mathematical Techniques and Applications-(e-ICMTA – 2022, Virtual mode) at SRMIST, Kattankulathur, Tamil Nadu, India.
11.Shirley Gloria D.K., D.K.Sheena Christy , “Few Closure Properties of Context-Free Multi-Strings Token Petri Net”, Third International Conference on Mathematical Techniques and Applications-(e-ICMTA – 2022, Virtual mode) at SRMIST, Kattankulathur, Tamil Nadu, India.
National conferences:
1. D.K. Shirley Gloria, K. Rangarajan and Beulah Immanuel , Petri net and Derivational languages, National Conference on Recent Trends in Science and Communicative English at Bharath University, Chennai, India, (2007), pp.18.
2. D.K. Shirley Gloria, K. Rangarajan and Beulah Immanuel , String Token Petri net and Derivational languages, UGC Sponsored National Conference on Recent trends in the application of Mathematics and Statistics with reference to and social sciences, Amas'07 at Sri Vasavi College, Erode, TN, India, (2007), pp.52.
3. D.K. Shirley Gloria, K. Rangarajan , Algorithmic Approach to the Length of the Words of String Token Petri Nets, National Conference on Recent Developments in Mathematics and its Applications, NCRDMA - 2011 at SRM University, Kattankulathur-603 203, Tamilnadu, India, (2011), pp. 338 -342.
4. S.Devi, Shirley Gloria D.K. , Context-free languages of String Token Petri Nets, 9 th National Conference on Mathematical Techniques and Applications, NCMTA-2017 at SRM University, Kattankulathur-603 203, Tamilnadu, India.

Paper presented in conferences
International conferences:
1. D.K. Shirley Gloria, Beulah Immanuel, K. Rangarajan , Szilard languages of String Token Petri nets, International Conference on Recent Developments in Combinatorics and Graph Theory at Kalasalingam University, Krishnankoil, Virudhunagar district, India, (2007), pp.42.
2. D.K. Shirley Gloria, Beulah Immanuel, K. Rangarajan ,Semi Bounded String Token Petri Nets, International Conference on Trends in information sciences and computing, TISC 2007 at Sathyabama University, Chennai-119, India, (2007), pp. 396- 404.
3. D.K. Shirley Gloria, Beulah Immanuel, K. Rangarajan ,Parallel Context-free Languages of String Token Petri Nets, International conference on Mathematics and Computer Science at Loyola College, Chennai, (2008), pp.377-379.
4. D.K. Shirley Gloria , Parsing for Languages of String Token Petri Nets, IEEE Fifth International Conference on Bio-Inspired Computing: Theories arid Applications (BIC-TA 2010) at Liverpool Hope University, Liverpool, U.K., 2, (2010), pp. 1577-1584.
5. D.K. Shirley Gloria, K.Nirmala , Parallel splicing on Iso-Array Token Petri Nets, International Conference on Mathematical Computer Engineering-2017 at VIT University, Chennai Campus, Chennai-600127.
6. D.K. Shirley Gloria, G.AlbertAsirvatham , Context – FreeArray-Token Petri Nets, International Conference on Mathematical Computer Engineering-2017 at VIT

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7. D.K.Shirley Gloria, S.Devi and K. Nirmala , “Regular string-token Petrinets”, International Conference on Mathematical Techniques and Applications-2020 at SRMIST, Kattankulathur, Tamil Nadu, India.
8.D.K.Shirley Gloria, S.Devi and K. Nirmala , “Context-Sensitive String-Token Petrinets”, International Conference on Mathematical Sciences-2020 at Sathyabama Institute of Science and Technology, Chennai, Tamilnadu, India.
9. Shirley Gloria D.K., D.K.Sheena Christy , “Context-Free Multi-Strings Token Petri Net”, Third International Conference on Instrumentation, MEMS and Bio-Sensing Technology(Virtual)–2022 at SRMIST, Kattankulathur, Tamil Nadu, India.
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4. S.Devi, Shirley Gloria D.K. , Context-free languages of String Token Petri Nets, 9 th National Conference on Mathematical Techniques and Applications, NCMTA-2017 at SRM University, Kattankulathur-603 203, Tamilnadu, India.

Participation in conferences
International conferences:
1. D.K. Shirley Gloria , Beulah Immanuel, K. Rangarajan, Szilard languages of String Token Petri nets, International Conference on Recent Developments in Combinatorics and Graph Theory at Kalasalingam University, Krishnankoil, Virudhunagar district, India, (2007), pp.42.
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International Conference on Bio-Inspired Computing: Theories and Applications (BIC-TA 2010) at Liverpool Hope University, Liverpool, U.K., 2, (2010), pp. 1577-1584.
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8. D.K.Shirley Gloria, S.Devi and K. Nirmala , “Context-Sensitive String-Token Petrinets”, International Conference on Mathematical Sciences-2020 at Sathyabama Institute of Science and Technology, Chennai, Tamilnadu, India.
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10. Shirley Gloria D.K., D.K.Sheena Christy , “Regular Multi-Strings Token Petri Net”, Third International Conference on Mathematical Techniques and Applications-(e-ICMTA – 2022, Virtual mode) at SRMIST, Kattankulathur, Tamil Nadu, India.
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4. S.Devi, Shirley Gloria D.K. , Context-free languages of String Token Petri Nets, 9 th National Conference on Mathematical Techniques and Applications, NCMTA-2017 at SRM University, Kattankulathur-603 203, Tamilnadu, India.

Refresher and Orientation Courses				
Sl. No.	Name of the course	UGC - ASC / UGC-HRDC, University	No. of days	Period
1.	Orientation Course, Batch - 129	UGC – HRDC and RCCB, University of Madras, Chennai – 600 005 (sponsored by the UGC).	28	10.05.2017 to 06.06.2017
2.	Refresher Course in “Mathematics”(Batch - XXXIII)	UGC – HRDC, University of Madras, Chennai – 600 005 (sponsored by the UGC)	14	10.10.2019 to 23.10.2019
3.	Refresher Course in “Mathematics and Statistics” (Batch - XXXVI)	UGC – HRDC, University of Madras, Chennai – 600 005 (sponsored by the UGC)	14	16.08.2022 to 29.08.2022