PROFILE

Name	:	**DR. S. M. SAROJA THEERDUS KALAVATHY**
Designation	:	Associate Professor
Department	:	Mathematics
Date of Birth	:	07.05.1961
Date of Appointment	:	11.10.1985

ACADEMIC

S.No.	Degree	University/Institution	Year of completion
1.	B.Sc.	Jayaraj Annapackiam College For Women	1981
2.	M.Sc.	Jayaraj Annapackiam College For Women	1983
3.	B.Ed.	Madurai Kamaraj University	1985
4.	M.Phil.	St. Xavier's College, Palayamkottai	1994
5.	PGDCA	Jayaraj Annapackiam College For Women	1997
6.	Ph.D.	Madurai Kamaraj University	2013

Total Experience : 32 years

Area of Specialization/Interest: Theoretical Computer Science: Formal Languages

RESEARCH EXPERIENCE

PUBLICATION

International: **Paper entitled**,

- *"H_n Array Splicing"*, Bio-inspired Computing: Theories and Application, IEEE Computer Society, IEEE Press, Volume 2 (2010), pp: 1424-1428.

- *"Fuzzy Puzzle Grammar and Languages"*, Advances in Image Analysis and Applications, Research Publishing Service, 2011, pp: 85 - 92.

- *"Double Hexagonal Array Splicing System"*, Bio-inspired Computing:Theories and Application, IEEE Computer Society, IEEE Press, 2011, pp: 176 -181.

- *"Array P Systems with Hybrid Teams"*, Advances in Intelligent Systems and Computing, Springer, volume 1, 2013, pp: 239 -249.

- *"The Impact of Global Financial Crisis on International Markets"* International Journal of Research In Commerce and Management, volume 3 (2012), Issue no. 2 (February), pp: 71 - 75.

- *"Mechanism of Fuzzy ARMS on Chemical Reaction*", Innovations in Bio-Inspired Computing and Applications, Volume 424 of the series Advances in Intelligent Systems and Computing, Springer, 2015, pp: 43-53.

- *"The Power of Hybridity and Context Free in HP System"*, Innovations in Bio-Inspired Computing and Applications, Volume 424 of the series Advances in Intelligent Systems and Computing, Springer, 2015, pp: 55-65.

- *"Fuzzy ACS with Biological Catalysts on Membranes in Chemical Reactions*", Journal of Network and Innovative Computing, Volume 4, 2016, pp: 143-151.

- *"Hybrid P System with Conditional Communication"*, International Journal of Computer Infromation Systems and Industrial Management Applications. Volume 8, 2016, PP: 326-335.

- *"Simulation of Fuzzy ACSH on Membranes with Michaelis-Menten Kintetics"*, Bio-Inspired Computing-Theories and Applications, Volume 681 of the series communications in Computer and Information Science, Springer, 2017, pp: 142-154.

- *"The Computational Power of Array P System with Mate Operation"*, Bio-Inspired Computing-Theories and Applications, Volume 681 of the series communications in Computer and Information Science, Springer, 2017, pp: 200-214.

- *"A Study on Membrane Structure of Contextual Hexagonal Arrays"*, The International Journal of Science & Technoledge, Volume 4. Issue 7, 2016.

National: Paper entitled,

- *"k-context Free Puzzle Grammar and Languages"*, Proceedings of 5[th]Indian International Conference on Artificial Intelligence, 2011, pp: 580 - 589.

- *"Hybrid Context Free Puzzle Grammars"*, ICMEB, volume 2, 2012, pp: 33 - 38.

- *"A Generative Model for Picture Arrays Based On Test Tube Systems and Array Splicing"*, Computational and Mathematical Modelling, Narosa Publishing House, 2012 pp: 398 - 405.

- *"Simple Test Tube Splicing on Images"*, Proceedings of 2014 Asian Conference on Membrane Computing, 2013.

- *"Mechanism of Sulfoxidation in Artificial Cell System"*, Proceedings of 2014 Asian Conference on Membrane Computing, 2013.

Presentation (Abroad)

- "**Double Hexagonal Array Splicing System**", Sixth International Conference on Bio-Inspired Computing: Theories and Application, **University Sains Malaysia**, **Malaysia**, 27-29 September, 2011.

Presentations (International in India)

- Array P Systems with Hybrid Teams, International Conference on Bio Inspired Computing : Theories and Applications 2012 (BICTA 2012), **Atal Bihari Vajpayee Indian Institute of Information Technology and Management, Gwalior**, 14-16, December, 2012.

- Hybrid Context-free Puzzle Grammars, International Conference on "Mathematics in Engineering and Business Management", **Stella Maris College , Chennai,** 9-10, March 2012.

- A Generative Model For Picture Arrays Based On Test Tube Systems And Array Splicing, International Conference On Mathematical and Computational Models, P**. S. G. College of Technology, Coimbatore**, December 19-21, 2011.

- k-context free puzzle grammar and languages, 5th Indian International conference on Artificial Intelligence (IICAI -11) **Siddaganga Instituteof Technology, Tumkur, Karnataka,** 14-16, December 2011.

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